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A DESCRIPTION OF THE MINERALS IN THE LESKEAN MUSEUM.

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TRANSLATED

By GEORGE MITCHELL, M.B.

VOL. II.

CONTAINING THE

GEOLOGICAL, GEOGRAPHICAL, AND ŒCONOMICAL COLLECTIONS.

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III.

GEOLOGICAL COLLECTION.

G.

III.

GEOLOGICAL COLLECTION.

G.

FIRST CLASS.

PRIMÆVAL ROCKS.

1. *GRANITE.*

A. *Agreement of the Conſtituent Parts.*

a. Similarly Grained.

1 Large grained Granite, with much Quartz and Felſpar; from Konigshain in Upper Lusatia.

2 Coarſe grained Granite with ſome long grained Mica; from Carlsbad in Bohemia.

3 Granite, which is intermediate between coarſe and ſmall grained; from Konigshain.

4 Similar Granite, but in ſome places a little unequally Grained; from Bauzen.

5 Small grained Granite; from Suhme.

6 Fine grained Granite, ſomewhat approaching the unequally Grained; from Konigshain.

7 Very fine grained Granite, forming a vein in large-grained ditto of the following variety.

b. Diſſimilarly Grained.

8 Very large grained Granite, with ſmall grained Quartz and Mica; from Konigshain.

9 Somewhat ſmaller, large grained Granite; traverſed by fine-grained of the foregoing variety; from the ſame place.

10 Very coarſe grained Granite, but in which the Mica alone is ſmall-grained; from Geier.

11 Coarſe-grained Granite, with inlaying ſomewhat long-grained Mica; from Ruſsia.

12 Much ſmaller coarſe-grained Granite, with nearly fine-grained Mica; from Schulberg near Konigshain,

13 Small-grained Granite mixed with fine-grained, and inſulated inlaying coarſe-grained Felſpar, as alſo coarſe-grained Quartz; from the Eilfuhre near Flinsberg.

14 Fine-grained Granite, with ſmall-grained Mica, forming a vein in coarſe-grained of the foregoing kind; from Konigshain.

B. *Colour of the Conſtituent Parts.*

a. *Of the Felſpar.*

15 Granite with milk-white Felſpar, wherein the Quartz is yellowiſh grey, and the Mica browniſh black; from Dürkungen in the Co. of Glaz.

16 Granite with yellowiſh white Felſpar, in ſome places ſlightly decompoſed, in other reſpects on the whole conſtituted as the foregoing; from Schreibershau in Sileſia.

17 Granite with ochre yellow Felſpar; from Konigshain.

18 Large-grained Granite with greeniſh white Felſpar, and traverſed by fine-grained, in which the Felſpar is reddiſh white; from the ſame place.

19 Granite with greeniſh grey Felſpar, dark grey Mica, and bright grey Quartz; from Gorliz.

20 Granite with reddiſh white Felſpar, ſmoke grey Quartz, and dark grey Mica; from Altenberg.

21 Granite with dark carnation red Felſpar and very long-grained Mica which paſſes into Hornblende; from the celebrated Quarry, 10 Werſts from Petersburg.

22 Granite with milk white Felſpar ſpotted with red; from the ſame place.

b. Of

b. Of the Quartz.

23 Granite with greyiſh white Quartz; from Upper Lusatia.
24 Granite with yellowiſh grey Quartz; from the confines of Silesia.
25 Granite with ſmoke grey Quartz; from Bauzen.

c. Of the Mica.

26 Granite with ſilvery white Mica; from Konigshain.
27 Granite with dark greeniſh grey Mica; from Bohemia.
28 Granite with yellowiſh grey Mica from Konigsbruck in Upper Lusatia.
29 A piece of Granite with dark Pinchbeck brown Mica; from Frauenstein on the Bohemian confines.
30 Granite with black Mica; from Bauzen.

C. *Proportion of the Conſtituent Parts (with reſpect to Quantity.)*

31 Granite in which a perfect equality ſubſiſts between the three conſtituent parts; from Bauzen.
32 Granite with more Quartz and Felſpar than Mica; from Bohemia.
33 Granite with ſomewhat more Felſpar than Mica and Quartz.
34 Granite with a large proportion of Felſpar, ſome Mica, and a little Quartz; from Schmeideberg in Silesia.
35 Granite with an exceeding large quantity of Felſpar and ſome Quartz, but very little Mica, traverſed by fine-grained in which the proportion of the conſtituent parts is reverſed; from Konigshain.
36 Granite with a large quantity of Felſpar and Quartz, but extremely little Mica; from Wurzen.
37 Granite with very much Quartz, little Mica, and very little Felſpar; from Bernstadtel in Upper Lusatia.
38 Fine-grained Granite with an extremely large proportion

tion of Quartz, little Mica, and very little Felſpar; alſo with an inverted order of the foregoing, with adhering coarſe-grained of another proportion; from Upper Lusatia.

39 Granite with much Mica, a good deal of Felſpar, and ſome Quartz; found between Freiberg and Frauenstein.

40 Granite with much Mica and Quartz, but with little Felſpar.

41 A piece of Granite with an exceeding large quantity of Mica and Quartz intimately mixed, and extremely little Felſpar.

Rem. It is part of a Boulder from Upper Luſatia, in which the Mica approaches very nearly to Hornblende.

D. *Tranſitions of Granite.*

42 Granite whoſe appearance on the whole is tolerably ſlaty; from Dittersbach in Upper Luſatia.

43 Granite very ſlaty, approaching pretty nearly to Gneiſs; from Savoy.

44 A perfect medium between coarſe-grained Granite and thick fibrous Gneiſs; from Oberneuschönberg on the confines of Bohemia.

45 An intermedium between Granite and Porphyry; from the vicinity of Altenberg.

Rem. This tranſition originates from the great abundance of the Felſpar, and the intimate union of the Quartz with the Mica, forming a ſort of cement or baſis.

E. *Decompoſition of Granite.*

46 A piece of Granite in which the Felſpar has loſt a very minute portion of the water of cryſtallization only; from Upper Lusatia.

47 Granite with Felſpar ſomewhat farther decompoſed; from Konigshain.

48 Granite with Felſpar conſiderably decompoſed; from the ſame place.

49 Granite, on one ſide of which the Felſpar is decompoſed almoſt entirely to Porcellain Clay, but on the other,

not quite ſo much decompoſed; from the County of Glaz.

50 Granite in which the Mica is decompoſed into Steatite, but the Felſpar very ſlightly; from Siberia.

51 Granite with the Mica and Felſpar quite decompoſed; from the vicinity of Meissen.

52 Granite with almoſt perfectly decompoſed Mica, and Felſpar ſlightly ſo; from Kiphaüser in Thuringia.

53 Granite with entirely decompoſed Mica, in which on the other hand the Felſpar ſtill retains its perfect luſtre; from the Altaischan Mountains.

Rem. This is extremely rare, as the Felſpar is by far moſt ſubject to decay.

F. *Mixed with other Foſſils.*

a. *Intimately.*

54 Exceedingly Ironſhot Granite; from Seifenberg in Upper Lusatia.

55 Granite ſlightly penetrated by calcareous particles; from Thuringia.

b. *Viſibly.*

56 Quartz Cryſtals which are found in Granite; from Upper Lusatia.

57 Granite intermixed with Fluor Spar; from Geier.

G. *Mineral and Foſſil Veins traverſing Granite.*

58 Coarſe-grained Granite interſected by a vein of fine-grained two inches broad; from Upper Lusatia.

59 Granite forming the walls of a Hornſtone and Quartz vein, with diſſeminated White Cobalt Ore; from Schneeberg.

60 Granite with an adhering vein of Siderocalcite; from the ſame place.

61 Very Ironſhot Hornſtone with ſome adhering Granite; from Schneeberg.

62 Very Ironſhot Hornſtone pervaded with ſtill more numerous particles of Iron; from the ſame place.

63 Reniform Red Hæmatites; from the ſame place.

64 Similar Brown Hæmatites, or compact Brown Iron Stone; from the ſame place.

65 Coarſely diſſeminated compact Brown Iron Stone, in Quartz; from Geier.

66 Very thickly and very fine diſſeminated Tin Stone, in Quartz; from Altenberg.

67 Exceeding finely diſſeminated Tin Stone in the ſame matrix, but with viſible particles of Mica; from the ſame place.

68 Exceeding finely and ſparingly diſſeminated Tin Stone, in ſimilar Quartz.

69 A Quartzy Veinſtone, mixed with ſome Hornblende and Lithomarga, out of Granite; from the ſame place.

70 A Quartzy Veinſtone with ſuperficial ſpecular Iron Ore; from the ſame place.

H. *With other Rocks.*

71 Large-grained Granite intermixed with Schiſtoſe Hornblende; from Geier in the Erzgebirge.

2. SIENITE.

A. *Varieties ariſing from the Grain.*

72 Large-grained Sienite; from Scharſenberg near Meiſsen.

73 Coarſe-grained Sienite; from Norway.

74 Tolerably ſmall-grained Sienite; from Scharſenberg.

75 Actually ſmall-grained Sienite, but with inſulated inlaying coarſe-grained Felſpar; from the ſame place.

76 Very fine-grained Sienite, with ſolitary coarſe grains of Mica; from Baden-Durlach.

B. *Varieties according to the Proportion of the Conſtituent Parts.*

77 Sienite with very much Felſpar and equal parts of Quartz and Hornblende; from Scharſenberg.

78 Sienite with very much Felſpar, ſome Quartz, and a little Hornblende; from the ſame place.

79 Sienite with a large quantity of Hornblende and Felſpar, and but little Quartz; from the ſame place.

80 A piece of Sienite with more Quartz and Hornblende than Felſpar; from Steiermark.

D. *Decompoſition of Sienite.*

81 A piece of Sienite, the Felſpar of which, in ſpots only, is very ſlightly affected.

82 Sienite with Felſpar in ſome places far decompoſed, and an accidental admixture of green Actynolite; from the vicinity of Brokken in the Hartz.

3. *GNEISS.*

A. *Varieties according to the thickneſs of the Fracture.*

83 Very thick fibrous Gneiſs; from the Goldbrun in Thuringia.

Rem. It is there conſidered by many as a Granite.

84 Thick fibrous Gneiſs; from Lösniz near Freiberg.

85 Tolerably thin ſlaty Gneiſs; from Freiberg.

86 Still thinner ſlaty Gneiſs; from Kemniz near Freiberg.

87 Extremely fine ſlaty Gneiſs; from the Old Hope at Grossvoigtsberg near Freiberg.

Rem. It very nearly approaches to Schiſtoſe Hornblende.

B. *Varieties with reſpect to the direction of the Fracture.*

88 Tolerably ſtraight ſlaty Gneiſs; from Lösniz.

89 Undulatingly curved ſlaty Gneiſs; from Marienberg.

C. *Varieties according to the Proportion of the Conſtituent Parts.*

90 Gneiſs with a large quantity of Felſpar, much Mica, and a little Quartz; from Freiberg.

91 A piece of Gneiſs with very much Mica, much Quartz, and ſome Felſpar.

92 Gneiſs with very much Quartz, ſome Mica, and a little Felſpar; from the Schneekuppe.

D. *Tranſitions.*

93 Gneiſs, the half of whoſe Black Mica ſomewhat reſembles Schiſtoſe Hornblende; from Freiberg.

94 A intermediate Foſſil between Gneiſs and Granite; from Bohemia.

E. *Decompoſed Gneiſs.*

95 Coarſe fibrous Gneiſs with ſlightly decompoſed Felſpar, but further decompoſed Mica; from Switzerland.

96 Gneiſs with entirely decompoſed Felſpar; from the Isaac near Freiberg.

97 Gneiſs entirely decompoſed, which is ſcarce any longer diſtinguiſhable except where the Quartz ſtill retains its appropriate ſtructure, with an adhering compound of Brown Blende, Martial Pyrites, and ſome Galena; from Freiberg.

F. *With ſuperficial Ore.*

98 Superficial Red Silver Ore on Gneiſs; from the Old Hope at Grossvoigtsberg.

G. *Ores and Veinſtones which occur in Gneiſs.*

99 Capillary Native Silver, in a compound conſiſting of a large quantity of Quartz, Copper Pyrites, Black Blende,

ſome Galena, Siderocalcite, and Martial Pyrites; from the Schweinkopf near Freiberg.

100 Antimoniated Silver Ore in druſy Quartz, intermixed with Argentiferous Arſenical Pyrites; from Braunsdorf.

101 Light Red Silver Ore, mixed with ſome Martial Pyrites and White Cobalt Ore; from Annaberg.

102 Superficial and diſſeminated Red Silver Ore, with Siderocalcite upon and in Gneiſs; from Freiberg.

103 Maſſive Galena with ſome Light grey Silver Ore in Quartz; from the ſame place.

104 A groupe of Galena with Maſſive ditto and Brown Blende on Quartz, wherein a little Martial and Arſenical Pyrites is diſſeminated; from the ſame place.

105 Maſſive White Lead Ore in Baroſelenite; from Tschopau near Marienberg.

106 Maſſive Tin Stone with Talcoſe Mica in Quartz; from Ehrenfriedersdorf.

107 Cryſtallized common Martial and Hepatic Pyrites on a Quartz groupe; from Johangeorgenstadt.

108 Similar, nearly decayed, Hepatic Pyrites on a Quartz groupe, with Baroſelenite underneath.

109 Minutely cryſtallized Martial Pyrites on a Quartz groupe, with much Blende and Galena underneath; from the Morgenstern near Freiberg.

110 Rhomboidally cryſtallized Sparry Iron Ore on a Quartz groupe; from Annaberg.

111 Maſſive Arſenical Pyrites in Quartz, wherein a little Galena, Copper Pyrites, and Black Blende is diſſeminated, on Gneiſs; from Freiberg.

112 Pyramidally cryſtallized Quartz, intermixed with Fluor Spar, on Gneiſs; from the Halsbrukke near Freiberg.

113 A groupe of hexhædral Priſmatic Quartz Cryſtals, coated by Calcareous Spar, with Maſſive Quartz underneath wherein Brown Blende occurs, with adhering Gneiſs; from Freiberg.

114 Wacken of a greeniſh grey colour; from Marienberg.

115 Priſmatically cryſtallized calcareous Spar, on Maſſive ditto wherein a little Copper Pyrites is diſſeminated; from Freiberg.

116 Maſſive Baroſelenite with Cubic impreſſions; from the Isaac near Freiberg.

117 Baroſelenite cryſtallized in rectangular tetrahædral tables, in a groupe of Fluor Spar; from the ſame place.

118 Lamellar Baroſelenite cryſtallized in ſimilar, globularly accumulated tables, forming a groupe upon foliated ditto; from Iberg.

119 Lamellar Baroſelenite cryſtallized in very broad hexhædral Priſms with the extremities bevilled, on compact ditto, to which Martial Pyrites adheres underneath; from the Isaac near Freiberg.

H. *Stones occurring in extenſive layers in Gneiſs.*

120 A very large piece of common Actynolite paſſing into Aſbeſtus; from the Father Abraham at Scheinberg.

121 Granular Limeſtone in Gneiſs; from Braunsdorf.

122 Coral Agate (commonly ſo called) with a large quantity of Carnelianlike Jaſper; from the Halsbach near Freiberg.

123 Coral Agate in which fine ſplintery Quartz predominates; from the ſame place.

124 Coral Agate with a large quantity of Amethyſt; from the ſame place.

125 An entire vein of Violet Blue Amethyſt, with Gneiſs ſtill adhering; from the ſame place.

4. SCHISTOSE MICA.

126 Very thick ſlaty Schiſtoſe Mica, in which the Quartz predominates; from Upper Lusatia.

127 Rather thick and undulatingly curved ſlaty Schiſtoſe Mica, with inlaying coarſe grains of Garnet; from Braunsdorf.

128 Schiſtoſe Mica rather thin ſlaty, with very numerous ſmall inlaying Garnets; from Meſſersdorf.

129 Tolerably ſtraight ſlaty Schiſtoſe Mica, alſo containing Garnets; found on the Road between Altenberg and Freiberg.

130 Schiſtoſe Mica in which the Mica predominates, with true Garnet Cryſtals; from the vicinity of Glasshütte.

131 Schiſtoſe Mica in which the Mica in ſome places

ſomewhat approaches to Hornblende; from Upper Luſatia.

132 A very fine ſlaty Schiſtoſe Mica, which appears to paſs into Schiſtoſe Hornblende; from Schönfield near Konigsbrück.

133 An intermediate Foſſil between Schiſtoſe Mica and Argillite; from Johangeorganstadt.

5. SCHISTOSE HORNBLENDE.

134 Extraordinarily fine ſlaty Schiſtoſe Hornblende; from the vicinity of Schneeberg.

135 Very fine ſlaty Schiſtoſe Hornblende, with ſuperficial Martial Pyrites and calcareous Spar; from Freiberg.

136 Coarſe ſlaty Schiſtoſe Hornblende, in which the Quartz is obvious; from Dorf-Kemniz.

137 Very coarſe ſlaty Schiſtoſe Hornblende, which aſſumes almoſt a granular appearance; from the ſame place.

138 Schiſtoſe Hornblende which approaches to Argillite, in which, however, the particles of Hornblende are ſtill obvious; from Norway.

139 A genuine tranſition from Schiſtoſe Hornblende into Argillite; from the ſame place.

140 Schiſtoſe Hornblende which is very fine and compact, with adhering coarſe-grained Sienite; from the Adam Heber at Schneeberg.

6. ARGILLITE.

A. *Common Argillite.*

a. *Varieties of the Colour.*

141 Mountain green Argillite with adhering Calcareous Spar; from Schneeberg.

142 Greeniſh grey Argillite; from the ſame place.

143 Yellowiſh Grey Argillite; from Aix-la-Chappelle.

144 Smoke Grey Argillite; from the ſame place.

145 Blackiſh Grey Argillite; from Saalfeld.

146 Greyiſh Black Argillite, with granular Limeſtone underneath; from Braunsdorf.

147 Yellowiſh grey ſprinkled Argillite, with oblong greeniſh grey ſpots alſo; from Lösniz near Schneeberg.

b. Varieties of the Fracture.

148 Very thick ſlaty Argillite; from Wiederrengersdorf in Upper Luſatia.

149 Rather thick ſlaty Argillite with Quartz; from Braunsdorf.

150 Thin and ſtraight ſlaty Argillite; from Adelfors in Sweden.

151 Very thin ſlaty Argillite, with ſuperficial Mica in the rifts; from Meſſersdorf.

152 Extraordinarily fine ſlaty Argillite; from Ronneburg in Ruſsia.

c. Tranſitions.

153 Common Argillite which approaches very much to Siliceous Schiſtus; from the ſame place.

154 A true intermediate Foſſil between Common Argillite and Siliceous Schiſtus; from the ſame place.

155 Argillite which approaches very nearly to Schiſtoſe Mica, with Garnets here and there; from Gersdorf near Freiberg.

d. Argillite as a Matrix.

156 Green Argillite mixed with Calcareous Spar; from the Adam Heber at Schneeberg.

157 Bluiſh grey Argillite intermixed with much Calcareous Spar and a Calcareous Spar groupe on one ſide; from Braunsdorf.

e. Mixed with other Foſſils.

a. a. In traverſing viſible Veins or Slips.

158 Argillite traverſed by extremely delicate Schiſtoſe Mica; from Meſſersdorf.

159 Argillite with traverſing Schiſtoſe Hornblende, in numerous Slips; from the Adam Heber at Schneeberg.

160 Quartz Slips which traverſe the Argillite; from Braunsdorf.

161 Argillite with a traverſing Quartz Slip, which exceeds an inch; from Hohenstein.

162 Extremely numerous narrow Slips of Cinnabar in Argillite; from Idria.

163 A Quartz Slip with adhering Argillite on both ſides; from Strasberg in the Hartz.

164 A Slip of Siderocalcite with adhering Argillite; from Schneeberg.

b. b. Veinſtones and Minerals which occur in Argillite without forming viſible veins.

165 Maſſive Galena in Calcareous Spar which is mixed with a little Siderocalcite; from the Hartz.

166 A groupe of White Lead Ore Cryſtals, on Quartz which is mixed with Galena and ſome Copper Pyrites, with adhering Argillite; from Zellerfeld.

167 Cryſtallized Yellow Blende with Calcareous Spar, upon an (apparently) decompoſed Argillite; from Tranſylvania.

168 Grey Antimonial Ore, mixed with Plumoſe Ore; from Strasberg in the Hartz.

169 A Quartz groupe with Lamellar Baroſelenite; from Gersdorf.

170 Green Fluor Spar; from Strasberg.

B. *Novaculite.*

171 Greeniſh grey Novaculite; from Bareuth.

7. *SILICEOUS SCHISTUS.*

172 Smoke grey, very thick ſlaty Siliceous Schiſtus; from the Gold Mine at Kunnersdorf.

173 Imperfectly conchoidal greyiſh black Siliceous Schiſtus; found as a boulder in the vicinity of Konigsbruck, near Blankenburg.

174 a A piece of ſimilar Siliceous Schiſtus with very numerous Quartz ſlips; part of a boulder found near Leipsic.

174 b Siliceous Schiſtus with very numerous traverſing Quartz Veins; from Gersdorf.

Rem. It ſomewhat reſembles the baſis of Horn Porphyry.

8. *HORN PORPHYRY.*

A. *Varieties of the Baſis.*

a. The Fracture of it.

175 Very thick ſlaty dark yellowiſh grey Horn Porphyry; from the Konigsholz near Witgendorf in Upper Luſatia.

176 Alſo thick and ſomewhat curved ſlaty Horn Porphyry of the ſame colour; from Hutberg.

177 Rather thin ſlaty dark greeniſh grey Horn Porphyry; from Johannesberg near Zittau.

178 Nearly quite compact black Horn Porphyry with inlaying Hornblende; from Upper Luſatia.

179 Tolerably coarſe ſplintery Horn Porphyry, paſſing from the ſmoke into greeniſh grey; from the Lausch.

180 Somewhat ſmaller ſplintery, but furniſhed with very numerous ſlates, Horn Porphyry; from Goldberg near Gross Schönau.

181 Very fine ſplintery Horn Porphyry; from Waltersdorf near Zittau.

182 Dark ſmoke grey Horn Porphyry, whoſe fracture inclines from the ſplintery and ſlaty, into the imperfectly conchoidal; from Hainewald.

b. The diſtinct Concretions of it.

183 Horn Porphyry of coarſe and round-grained diſtinct concretions; from near Hainewald.

184 Similar Horn Porphyry with ſmall and round-grained diſtinct concretions; from the Lauſch.

B. *Varieties with reſpect to the other Conſtituent Parts.*

a. With Felſpar only.

185 Horn Porphyry with an extraordinary quantity of coarſe-grained Felſpar; from Hutberg.

186 Horn Porphyry with not ſo much, but ſmall-grained Felſpar; from Hainewald.

187 Horn Porphyry with extremely little Felſpar; from Gorliz.

b. With other Conſtituent Parts alſo.

188 Horn Porphyry containing at the ſame time Felſpar and inlaying Hornblende; from Unglückſtein.

189 Horn Porphyry with a large quantity of Hornblende and but very little Felſpar; from Silverberg in Upper Luſatia.

190 Horn Porphyry, with very ſmall and few Felſpar dots, and extremely numerous long Hornblende Cryſtals: from Hainewald.

C. *Decompoſed Horn Porphyry.*

191 Horn Porphyry in which the baſis is become very Argillaceous, with minute dots of Felſpar, found as a boulder near Gorliz.

192 Horn Porphyry in which the Baſis is ſomewhat, but the Felſpar very far decompoſed.

D. *Other remarkable Particulars.*

193 Horn Porphyry traverſed by veins of Quartz and Martial Pyrites; from Gorliz.

9. PORPHYRY.

A. *With an Argillaceous Baſis.*

a. *Varieties according to the Colour of it.*

194 Porphyry with an Iſabella yellow, inclining to ochre yellow Baſis; found as a boulder between Pirna and Dreſden.

195 Porphyry with a greyiſh grey Baſis; from Altenberg.

196 Porphyry with a reddiſh white Baſis; from Bergſteinbach.

197 Porphyry with a dark carnation red Baſis; from Saxony.

198 Porphyry with a browniſh red Baſis; from Upper Luſatia.

199 Porphyry with a reddiſh brown Baſis, very much inclining to Lavender blue; from the Schonergrund.

200 Porphyry with a ſimilar Baſis, which incloſes green.

b. *Varieties of the extraneous intermixed Parts.*

201 Porphyry, with a large quantity of intermixed Felſpar, very little Mica and Quartz; from Altenberg.

202 Porphyry, with much Felſpar and little intermixed Mica, and very little Quartz; from near Halle.

203 Porphyry, with much Felſpar and a good deal of Mica Cryſtals; from Schemniz in Lower Hungary.

Rem. This is the Saxum Metalliferum of Born.

204 Porphyry, with a large quantity of Mica, without Felſpar; from Felſobania.

205 Porphyry, with minute ſcarcely viſible grains of Felſpar; from the road between Freiberg and Dresden.

206 Porphyry, with numerous intermixed Quartz Grains, without Mica or viſible Felſpar; from near Halle.

207 Porphyry, containing an exceeding large quantity of Felſpar and ſome Quartz as well as Garnets; from Wittelsberg in Upper Heſse.

c. *Decompoſed Porphyry.*

208 A piece of Porphyry in which the Felſpar is indeed entirely, but the baſis only ſlightly decompoſed; from Norway.

209 Porphyry in which the Felſpar is partly actually decompoſed, but partly appears barely without luſtre, the baſis is become perfectly friable; from the vicinity of Regensburg.

Rem. It is very ſrequently paſſed for Terras.

d. *Tranſitions.*

210 Porphyry nearly approaching to Granite, with dendritic delineations; from Altenberg.

e. *Inlaying Extraneous Stones.*

211 Porphyry with much Calcedony in ſome places paſſing into Carnelian, upon which Quartz has cryſtallized and therefore forming an Agate; from the vicinity of Kemniz in Saxony.

B. *With a Jaſper Baſis.*

212 Porphyry, with a liver brown Baſis, and very ſmall diſſeminated white Felſpar; from Mutschen.

213 Porphyry with a browniſh red Baſis, and inlaying ſmall-grained Felſpar, the grains of which however lay together in coarſe granular particles, with a coarſe ſandſtone Breccia adhering to one ſide.

214 A Porphyry boulder in which an exceeding large quantity of Felſpar, a good deal of Quartz and a

little Hornblende occurs in the foregoing baſis, which is here with difficulty recogniſed; from Sileſia.

Rem. This is a tranſition into Sienite.

215 Very compact Porphyry, whoſe reddiſh brown baſis approaches very nearly to Hornſtone, with no great quantity of intermixed Felſpar, Quartz and Hornblende.

C. *With an Hornſtone Baſis.*

a. Varieties with reſpect to the Colour of the Baſis.

216 Hornſtone Porphyry with a yellowiſh and reddiſh white baſis; from Carinthia.
217 Hornſtone Porphyry with a very pale ſmoke grey, in ſome places alſo greeniſh grey baſis; from Wurzen.
218 Hornſtone Porphyry with a baſis of an intermediate colour between greeniſh grey and Olive green; from Quandstein near Borna in Saxony.
219 Hornſtone Porphyry having a lavender blue baſis, with a Quartz groupe adhering underneath; from the ſame place.
220 Hornſtone Porphyry with a reddiſh brown baſis; from Nikkelsberg in Bohemia.
221 Hornſtone Porphyry with a Clove brown baſis; from Bohemia.
222 Hornſtone Porphyry with a dark blackiſh green baſis; from Zealand.

b. Varieties of its Fracture.

223 Porphyry of a fracture very much inclining from the ſplintery into the imperfectly conchoidal; from near Kemniz in Saxony.
224 Small ſplintery Porphyry; from Petersburg near Halle.
225 Fine ſplintery Porphyry; from Upper Luſatia.
226 Extremely fine ſplintery Porphyry; from Hungary.

c. Varieties

c. Varieties originating from the other Conſtituent Parts.

227 Porphyry with a few inlaying Felſpar grains only; from Brehne.

228 Porphyry with numerous, moſtly ſmall-grained inlaying pieces of Felſpar; from Denmark.

229 Porphyry with very much, for the moſt part coarſe-grained, intermixed Felſpar, ſome Quartz, and very little Hornblende; from Saxony.

230 Porphyry with much inlaying Quartz and very little Felſpar; found as a boulder near Leipsic.

231 A piece of Porphyry with very numerous Quartz grains and very little Felſpar; from Iglausberg in Bohemia.

232 Hornſtone Porphyry mixed with an extraordinary quantity of Quartz, which appears to paſs into the following variety; from Bohemia.

233 Hornſtone Porphyry mixed with Quartz and indiſtinct Hornblende, without any viſible Felſpar, which is in ſome meaſure a tranſition into the baſis itſelf; from Wurzen.

234 Hornſtone Porphyry whoſe baſis is mixed with an extraordinary quantity of Quartz and much Hornblende in ſpots; from Joachimstahl.

235 Hornſtone Porphyry with much intermixed Calcedony; from near Kemniz.

236 Hornſtone Porphyry with numerous interſperſed Garnets and ſome Quartz without Felſpar; from Hungary.

237 Porphyry in which Zeolite appears to preſent itſelf; from the Mountain Frualid in Schonen.

Rem. It is there very erroneouſly conſidered as a Trap.

d. Decompoſed Hornſtone Porphyry.

238 Porphyry in which the Felſpar is partially ſomewhat decompoſed; from the country between Kremniz and Neuſohl in Hungary.

239 Porphyry in which the Hornblende formerly exiſting

in it is entirely decompoſed and reſembles coal, but the Felſpar (which however could not have been in any great quantity therein) is converted into Porcellain Clay; from Bohemia.

240 Porphyry, in which the Felſpar is not alone decompoſed, but the baſis itſelf is alſo very much altered; from Hungary.

e. *Tranſititions of Hornſtone Porphyry.*

241 A piece of Porphyry very obviouſly paſſing into Granite; from Wurzen.

242 Porphyry forming the tranſition into the Rothe Todtliegende ſo called *; from Rothenburg on the Saal.

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* Or Semi-Protolite.

f. *Veinſtones traverſing and occuring in Hornſtone Porphyry.*

243 Porphyry with very numerous traverſing narrow Slips of Sparry Iron Ore, and alſo with a little ſuperficial Martial Pyrites and Galena; from the Pocherstollen near Schemniz in Lower Hungary.

244 A Vein which conſiſts of a large quantity of Black Blende and Martial Pyrites, mixed with a very little Galena, and an overlaying groups of Siderocalcite on Maſſive ditto, upon Porphyry.

245 Sulphurated Biſmuth on a Quartzy Matrix, with adhering very much decayed Porphyry; from the ſame place.

D. *Quartz Porphyry.*

246 Smoke grey very fine Quartz Porphyry, with traverſing Slips of Sparry Iron Ore, alſo here and there with diſſeminated Copper Pyrites and Galena; from the ſame place.

E. *Pitchſtone Porphyry.*

a. Independently conſidered.

247 Porphyry, the baſis of which is a ſmoke grey Pitchſtone ſlightly inclining to bluiſh, with very much intermixed Felſpar; from the country between Schemniz and Glasshütte in Lower Hungary.

248 Porphyry with a black Pitchſtone baſis and very much inlaying Ironſhot Felſpar; from Meissen.

249 Pitchſtone containing but very few traces of inlaying Felſpar, thus forming the boundary; from the ſame place.

b. Stones occuring in it.

250 Perfectly fine Olive green Pitchſtone; from the ſame place.

251 Brick red, quite fine-grained Pitchſtone; from the ſame place.

10. *TRAP.*

A. *Genuine Trap.*

252 Trap compoſed of a very fine admixture of much Hornblende and Quartz, yet ſo that they are ſtill diſtinct from each other, with extremely ſlender intermixed Felſpar particles; from the higheſt ſummit of Kinnakulle.

253 Trap of a ſimilar, ſcarcely ſmall-grained, mixture, in which the Felſpar is hardly more diſtinct; from Bohemia.

254 A piece of a Trap boulder, in which alſo the Felſpar is ſcarcely diſtinguiſhable, with diſſeminated Martial Pyrites; from the vicinity of Gorliz.

255 A piece of Trap in which the admixture of greeniſh grey Hornblende with the Quartz is leſs, but the Felſpar grains are notably more diſtinct, and the whole

has a ſlaty appearance, therefore at firſt ſight it might be taken for a Hornblende ſlate; from Norway.

256 A piece of Trap in which alſo the Quartz is very diſtinct, but the Felſpar ſtill more obvious than in the foregoing; from the Windſchacht near Schemniz.

257 Trap, wherein the Hornblende is of a ſomewhat lighter green colour, and the whole contains much ſmall-grained Felſpar; from Siberia.

258 A piece of dark greeniſh black Trap with tolerably long-grained inlaying Felſpar, wherein the Hornblende evidently exceeds the Quartz very conſiderably; from the ſame place.

259 Greeniſh grey Trap, with abundant coarſe-grained inlaying greeniſh white Felſpar; from Hungary.

260 Trap with an extraordinary quantity of very coarſe-grained Felſpar; from Teufelsberg near Konigsbruck in Upper Luſatia.

261 A piece of Trap with much large and unuſually long-grained inlaying Felſpar; from Norway.

262 Somewhat decompoſed Genuine Trap, in which the Felſpar principally is decayed, the Hornblende however is greeniſh grey, and owing to the Quartzy admixture is nearly of a mountain green colour, hence frequently this variety has been taken for Porphyry; from Mount Calvary near Schemniz.

263 a A piece of Trap paſſing into Sienite, where the Quartz becomes apparently more inſulated; from Upper Luſatia.

263 b Genuine Trap with numerous traverſing veins of Calcareous Spar; from Palioſero, 100 Werſts from Petroſawodsk.

264 Genuine Trap, in which however, the Felſpar is with great difficulty diſcoverable, with much intermixed Magnetic Iron Stone; from the ſame place.

B. *Semi-Trap?*

265 A peculiar ſort of Trap, in which the Quartz is in the firſt place intimately mixed with Hornblende, but then very much pure Quartz, moſtly granular, is diſtributed through it in place of the Felſpar as in the foregoing; from Altenberg in Saxony.

266 The ſame variety, with a traverſing Slip conſiſting of Hornſtone with inlaying Felſpar and a little diſſeminated Martial Pyrites; from Zealand.

Rem. It graduates into Porphyry.

C. *Grünſtein?*

267 A ſort of Trap, viſibly conſiſting ſimply of a mixture of pure Hornblende with coarſe and ſmall-grained Felſpar; from the ſame place.
268 Trap with very much Felſpar, which predominates in the compound; from the ſame place.
269 Grünſtein, wherein beſide the Hornblende and ſome Felſpar, Mica alſo occurs, which however is only an accidental occurrence in this ſort of Rock.

12. *BASALT.*

A. *Varieties in the Baſis.*

270 Extremely compact dark greyiſh black Baſalt, part of a boulder from Upper Lusatia.
271 Somewhat lighter greyiſh black Baſalt; from Gutte in Upper Lusatia.
272 Blackiſh grey Baſalt, ſomewhat approaching to the ſlaty; from the ſouthern Peak of Landskrone.
273 Dark ſmoke grey Baſalt; from Fulda.
274 Rather lighter fine ſplintery Baſalt; from Bohemia.
275 Grey Baſalt whoſe baſis is very argillaceous and has an uneven fracture; from the Herrenhuter Hutberg in Upper Lusatia.
276 A piece of Baſalt of coarſe and ſmall-grained diſtinct concretions.
277 A large pentagonal columnar diſtinct concretion of Baſalt.
278 A ſpheroidal piece of Baſalt.
279 A ſimilar piece, in the center of which, curved Lamellar diſtinct concretions are diſtinctly perceptible,

as alſo almoſt the whole exterior is much more decayed than the Nucleus.

Rem. The ſpecimens 275—279, are all from Upper Lusatia, and 278 indeed from Hernhut, but 279 from Petersgrund.

B. *Varieties ariſing from the intermixed Particles.*

280 Baſalt with very little intermixed Chryſolite; from the road between Eiſenach and Cassel.

281 Baſalt, with much more minutely diſſeminated Chryſolite; from the Wansch in Upper Lusatia.

282 Baſalt, with coarſely diſſeminated, almoſt maſſive Chryſolite; from Unkelstein on the Rhine.

283 Baſalt, with dark reddiſh diſſeminated Chryſolite approaching extremely near to Garnet; from Weigsmansdorf in Upper Lusatia.

284 A piece of Baſalt, with an inlaid foſſil which appears to conſiſt of green Garnet mixed with Felſpar, and lays therein larger than a cloſed hand; from Meſſersdorf in Upper Luſatia.

285 Baſalt, with inlaying decayed Chryſolite and a little Hornblende; from Salusan, on the road from Gatsch to Rimazenbath in Hungary.

286 a Baſalt, with very much intermixed Hornblende grains and but little Chryſolite, alſo ſome Calcareous Spar in lieu of it; from Rabenstein in Upper Lusatia.

286 b Baſalt, with extremely numerous inlaying Hornblende Cryſtals, and minutely botryoidal Calcedony; from Hesse Darmstadt.

287 Baſalt with diſſeminated Zeolite and ſome Hornblende; from Jauerik in Upper Lusatia.

288 Baſalt with inlaying calcareous Spar and Zeolite, and alſo ſome Hornblende and Mica in ſeveral places; from Fulda.

289 Yellowiſh brown Bole, found in, and alſo mixed with Baſalt, and probably originating from the decompoſition of it; from Steinberg near Lauban.

290 A piece of Baſalt, in which beſide the Chryſolite diſſeminated only partially, alſo half decompoſed Felſpar of an inch in diameter occurs; from Upper Lusatia.

C. *Tranſitions.*

291 A Baſalt almoſt perfectly decompoſed to Wacken, and much reſembling it; from the Wansch in Upper Lusatia.

292 Baſalt of imperfect coarſe granular diſtinct concretions, very nearly approaching to Horn Porphyry, part of a boulder; from the vicinity of Meſſersdorf.

293 Baſalt, which partly on account of its light grey colour, and partly by its fracture and coheſion, very nearly approaches to Siliceous Schiſtus, is alſo mixed with the ſame of a darker colour, and poſſeſſes a great degree of Spec. grav. from the Cauſeway near Cassel.

D. *Extraordinary Admixtures.*

294 Baſalt mixed in ſuch a manner with Granite, that the latter in ſome places is enveloped in the former, and that again in the latter; from Schwerterthal in Upper Lusatia.

295 A ſingular mixture of Baſalt grains and Sienite, in which beſide, entire ſtreaks of Baſalt traverſe the latter in the manner of veins, which proves that this mixture muſt have been yet ſoft where the latter entered it; from Landskrone in Upper Lusatia.

13. AMYGDALOID.

A. *Baſaltic Amygdaloid.*

a. Varieties of the Baſis.

296 Amygdaloid with a reddiſh brown, very compact baſis, and much cryſtallized Zeolite in it; from the Crater at Euben in Fulda.

297 Amygdaloid with a tolerably compact baſis and coarſe-grained uneven fracture; from the ſame place.

298 Amygdaloid whoſe baſis exhibits a conchoidal fracture; from the ſame place.

299 Amygdaloid with a tolerably earthy fracture, much inlaying Zeolite and Hornblende; from the ſame place.

b. Varieties of the Intermixed Parts.

300 Amygdaloid reſembling Baſalt, with the ſo called imperfectly botryoidal Rock Cryſtal; from Frankfort on the Main.

301 Amygdaloid with much inlaying globular Calcedony, wherein in ſome places Opal occurs.

302 Similar, but rather ſofter Amygdaloid, with ſmall groupes of calcareous Spar; from Fulda.

303 Amygdaloid mixed with very much Hornblende, and the pores wherein formerly Calcedony or the like may have been encloſed, are finely coated with Zeolite; from the Lausch in Upper Lusatia.

304 Similar Amygdaloid, partly with Calcareous Spar, and partly with elliptic maſſes of Green Earth; from Ileſeld in the Hartz.

c. Decompoſitions.

305 Amygdaloid reſembling Baſalt, in which ſmall groupes of Zeolite occur, which in ſome places have totally loſt their water of cryſtallization.

306 Similar Amygdaloid, out of which all the extraneous parts have decayed, therefore the whole has a perfectly porous appearance; from Ascherofen in the Thuringian Forest.

307 A piece of Amygdaloid in which not only all the extraneous parts have decayed out, but the baſis itſelf is alſo very much decayed, hence ſuch varieties are not unfrequently called Pumice; from Upper Lusatia.

B. *Common Amygdaloid.*

308 Amygdaloid with a very argillaceous reddiſh grey

baſis and inlaying Spheroids of Green Earth; from Zwickau in Saxony.

309 Amygdaloid with a pale greeniſh grey baſis, and ſimilar ſmall inlaying Spheroids; from the ſame place.

310 Amygdaloid ſtrongly inclining from the greeniſh grey into mountain green, mixed with much Calcareous Spar in ſmall grains; from the country between Osterrode and Clausthal.

Rem. Here and there this Calcareous Spar is decayed out.

311 A ſingular variety of Amygdaloid, wherein diſtinctly cryſtallized Calcareous Spar occurs which is perfectly tranſparent.

312 Amygdaloid with inlaying Spheroids of Lithomarga, which are in ſome places entirely waſhed out or decayed; from Bohemia.

313 A ſimilar but long-ſtriped Amygdaloid, in which the baſis is greeniſh grey, the Lithomarga long-grained and white, alſo partially mixed with ſome Mica; from the Erzgebirge.

314 A rare variety of Amygdaloid, in which not only ſmall Spheroids, the ſize of a pea of Calcareous Spar, but beſides that alſo long-grained Felſpar occurs intermixed; from the vicinity of Zwickau in Saxony, found forming a boulder.

14. *SERPENTINE.*

315 Light Olive green Serpentine, with very numerous traverſing black veins of the ſame; from Waldheim in Saxony.

316 Rather darker ſimilar Serpentine, with fewer veins of the foregoing kind; from the ſame place.

317 Dark blackiſh green, ſtriped with canary green Serpentine, which latter is very Steatitical; from the ſame place.

318 Dark blackiſh green Serpentine, with numerous inlaying Garnets; from Zöbliz near Marienberg in Saxony.

319 Rather lighter Serpentine with fewer Garnets; from the ſame place.

320 Serpentine with inlaying green Garnets and alſo Mica; from the ſame place.

321 Very micaceous Serpentine, with an interſecting Slip of Steatites; from the ſame place.

15. *PRIMITIVE LIMESTONE.*

a. Independently conſidered.

322 Smoke grey granular Limeſtone; from Konigsbruck in Upper Lusatia.

323 Very dark ſmoke grey granular Limeſtone, with a traverſing Slip of Calcareous Spar; from the ſame place.

324 Greeniſh grey ſmall-grained Limeſtone; from the ſame place.

325 Fine-grained blackiſh grey Limeſtone, with adhering Calcareous Spar; from Upper Lusatia.

326 Very fine-grained grey Limeſtone, with adhering white ditto; from the ſame place.

327 Extremely fine-grained black Limeſtone upon Calcareous Spar; from Kunnersdorf in Upper Lusatia.

b. With reſpect to the Intermixed Parts.

328 Granular Limeſtone which is mixed with much Argillite; from Kunnersdorf.

329 Limeſtone mixed with a ſort of Steatites, which however is only the before mentioned Argillite in an altered ſtate; from the ſame place.

330 Granular Limeſtone with adhering maſſive and cryſtallized Calcareous Spar, intermixed Argillite and Galena; from Braunsdorf.

331 Reddiſh white Calcareous Spar, with granular ditto which paſſes into the compact, and mixed with Argillite.

332 Rhomboidal Calcareous Spar, conſiſting merely of agglutinated fragments.

Rem. It is found near Kunnersdorf, in the Strata of granular Limeſtone.

16. *QUARTZ.*

333 White Quartz, with thick illinitions of Manganeſe in the rifts; from Weissenstein near Ober-Gerlachsheim in Upper Lusatia.
334 A ſmaller ſimilar piece, with an extraordinary number of rifts, by which the Quartz has ſuperficially a ſomewhat dendritic appearance; from the ſame place.
335 A large piece of greyiſh white Quartz; from Frauenstein in the Erzgebirge.

17. *TOPAZ ROCK.*

336 Topaz Rock, with white and alſo wine yellow Topazes; from Schnekkenstein near Auerbach in the Erzgebirge.
337 Topaz Rock with a very diſtinct inlaying Topaz Cryſtal; from the ſame place.

SECOND CLASS.

MARIGENOUS ROCKS.

1. *MARIGENOUS ARGILLITE.*

A. *Common Marigenous Argillite.*

338 Smoke grey Marigenous Argillite, with an indiſtinct impreſſion, probably of a fiſh; from Deux-ponts.
339 Reddiſh grey and greeniſh grey Marigenous Argillite, with impreſſions of Mytilites; from Hesse.
340 Slightly micaceous Marigenous Argillite; from the fourth light hole of the George adit in the Hartz.

Rem. This graduates into grey Wacke.

B. *Aluminous Slate.*

341 Gloſſy Aluminous Slate, with much viſible Martial Pyrites; from Sweden.

342 Aluminous Slate with much ſuperficial Martial Pyrites; from Russia.

Rem. This foſſil appears to paſs into Bituminous Argillite.

2. *MARIGENOUS LIMESTONE.*

A. *Compact Limeſtone.*

a. Varieties of the Limeſtone independantly conſidered, without regard to the admixture of Foſſils or Extraneous bodies.

a. a. Of the Colour.

343 Iſabella yellow Compact Limeſtone; from Wurtemberg.

344 Yellowiſh grey Limeſtone; from Iena.

345 Dark yellowiſh grey Limeſtone.

346 Pale ſmoke grey Limeſtone; from Iena.

347 Dark ſmoke grey Limeſtone with numerous petrifactions; from Rammelsberg.

348 Reddiſh brown Limeſtone with numerous inlaying petrifactions; from Neustadt at Rubenberg.

349 Dark and light yellowiſh brown ſtreaked Limeſtone; from the ſame place.

350 Yellowiſh grey Compact Limeſtone with long-grained white ſpots.

351 Greeniſh grey brown-veined Limeſtone; from Lieskau.

352 Ochre yellow, ſpotted with greyiſh white, Limeſtone.

b. b. Of the Fracture.

353 Small ſplintery grey Compact Limeſtone; from Weimar.

354 Iſabella yellow Limeſtone, paſſing from the fine ſplintery into the conchoidal, with the impreſſion of a fiſh; from the Auſtrian Netherlands.

355 Compact Limeſtone whoſe fracture inclines very much to the ſlaty; from the ſame place.

356 Small cellular Limeſtone; (Zechstein) from Eisleben in Mansfeld.

358 Compact Limeſtone with delicate arborizations; from Pappenheim in Suabia.

359 Limeſtone with a ſingle dendritic delineation repreſenting a Fir; from the ſame place.

a. Compact Limeſtone with diſtinguiſhable Extraneous Bodies.

a. a. Petrified Nuclei.

360 A ſmall Oſteolite in yellowiſh grey Limeſtone; from Erfurt.

361 A rather broader Oſteolite in ſmoke grey compact Limeſtone; from Weimar.

362 A very ſingularly ſhaped Oſteolite, almoſt like a Crab's claw; from Erfurt.

363 A petrified fiſhes tooth, above an inch in length, and ſtill firmly imbedded in grey compact Limeſtone; from Swiſserland.

364 A ſomewhat ſmaller Oſteolite detatched; from the ſame place.

365 Several Oſteolites with ſmooth margins, and much longer in proportion to their breadth.

366 Orthoceratites in yellowiſh grey compact Limeſtone; from Erfurt.

367 Belemnites from two to four inches long and above half an inch thick; from Bebenhausen in Würtemberg.

368 Another Belemnite three inches long and one third of an inch thick; from the ſame place.

369 Somewhat compreſſed Belemnites; from Goslar.

370 Two Belemnites adhering, ſeparated only by a fiſſure; from Luklum in Sweden.

371 A piece of a Belemnite whoſe tranſverſe Section is of an Elliptic figure.

372 A ſmaller Belemnite penetrating a larger one in a ſtraight direction; from Hurenberg.

373 A Belemnite of the figure in Walch's engravings, Tab. 6. b. 2.; from the Canton of Basle.

374 A ſimilar but more ſlender Belemnite; from Chemniz in the Erzgebirge.

375 Several Belemnites ſo connected together in compact Limeſtone, that the apex of one lays univerſally between the baſes of the others; from Austria.

376 An almoſt cylindrical Belemnite in compact grey Limeſtone; from Swisserland.

377 A Belemnite with the apex truncated, and cleft in the middle; from Altorf.

378 Another furniſhed with an apex, and cleft not quite to the top; from the ſame place.

379 A Belemnite, or rather the ſuperior portion of it, with an elliptic cavity in the middle; from Mutenz in the Canton of Basle.

380 Very ſlender Belemnites in Limeſtone; from Thuringia.

381 Small ſeparate ſtarry columnar ſtones; from Swisserland.

382 Slenderer ditto; from the ſame place.

383 A ſmaller ditto, on compact Limeſtone; from Galgenberg near Gandersheim.

384 Several piled on each other into actual columns; from Wurzburg.

385 Similar rounded ditto; from Fachheim in Cobourg.

386 Ditto, piled upon each other in pairs; from the ſame place.

387 Several ditto, piled over each other to the number of from four to ſeven; from Swisserland.

388 The ſame of a ſmaller diameter; from Champagne.

389 The ſame with the edges entirely rounded off; from the ſame place.

390 Rather thicker ſimilar ditto, inhering in a ſomewhat bituminous Limeſtone; from Thuringia.

391 Ditto, with angular margins; from Cobourg.

392 Several thicker ditto, in which alſo the ſpiky margins are diſtinguiſhable.

393 Encrinites (articulated ſtone) with Caryophylites in compact grey Limeſtone.

394 An Encrinite but without the buſh, as is repreſented in Walch's 2d table. 2. a. in compact Limeſtone; from Auſtria.

395 A ſimilar ſmaller piece, but more injured in the ſtem; from the ſame place.

396 Part of a petrified Caput Meduſæ in yellowiſh grey Limeſtone; from the Netherlands.

397 A large petrified Sea-urchin (Echinite), but with an oblique mouth.

398 Another more equilateral Echinite; from the vicinity of Leipſic.

399 The greater portion of a ſimilar but ſomewhat flatter petrified Echinite; from Echningen in Würtemberg.

400 Another petrified Echinite with a very oblique mouth; from Hardisleben in Weimar.

401 An Echinite of the variety figure 123 of the 11th table in Gmelin a, a. O; from the ſame place.

402 Another of a ſimilar kind, but with broader Folia; from Randberg in Swiſſerland.

403 A ſmall Echinite in which the poſition of the mouth as well as of the anus is diſtinguiſhable; from the ſame place.

404 A ſimilar ſomewhat flatter ditto; from the ſame place.

405 One of the ſame ſort, but the ſtreaks are not ſo diſtinct; from Seebachgrund near Bamberg.

406 A piece of a very large Echinite which exceeds eight inches in diameter, but is only two in height, and is the petrified ſcutum angulare altius of Klein; from Sienna.

407 A petrified Turkiſh turban with the warts ſtill diſtinguiſhable on it.

408 A petrifaction of the ſo called roſe flower; from Languedoc.

409 A ſimilar ditto, but more abraded; from Lubec.

410 Another ditto, in which only three leaves of the whole flower are to be ſeen; from the ſame place.

411 A ſimilar ſort with four rows of prickles in each furrow.

412 An Echinite of the ſort called death's head, with very deep furrows, and the impreſſion of the anus perfectly diſtinct; from Goſlar.

413 A ſimilar ditto, with the furrows ſomewhat ſhorter and not ſo deep, alſo with the impreſſion of the anus indiſtinct; from the ſame place.

414 A ditto, but very indiſtinct as the furrows are injured; from the ſame place.

415 A ſmaller ditto; from the ſame place.

416 Another ditto, much flatter; from Erlangen.

417 Five of the ſmalleſt ſpecies of Echinite; from Lubec.

418 A number of tolerably large Echinite ſpines ſtill preſerving their ſhanks; from Randberg in Swiſſerland.

419 Another which has loſt the ſhank, but is ſtill thorny; from the ſame place.

420 A clubſhaped Echinite ſpine above an inch and quarter long, with its ſhank without thorns; from the Veroneſe.

421 An Echinite ſpine of the acicular kind in greyiſh black compact Limeſtone; from Pfaffrath in Bergen.

422 Tubulites longitudinally ſulcated (dentalium Linnæi); from Chamont in France.

423 Extremely delicate Vermiculites, adhering over and through each other; from the Alp in Würtemberg.

424 A ditto, nearly the thickneſs of a quill; from Swiſſerland.

425 A petrified Serpula penis; from the ſame place.

426 A multitude of very indiſtinct Vermiculites upon a boulder of compact Limeſtone; from Weimar.

427 A large and very tall Nautilite with a diameter of nearly ſix inches; from Balingen in Suabia.

428 Another ſomewhat lower Nautilite; from Jena.

429 A piece of the exterior coil of a large Nautilite; from Varingen near Vienna.

430 A piece of another, in which the ſhell of the original is ſtill extant, which ſhews that the ſnail was the Nautilus Pompilius Linnæi; from Lorraine.

431 Small Nautilites in Lumachella, a boulder of which is ſawed through and poliſhed; from upper Auſtria.

432 A number of ſmall Nautilites of which the whole

bulk does not exceed half an inch; from Langenſalza in Thuringia.

433 A very large Ammonite, which on account of its being injured in the middle, has perfectly the appearance of a Nautilite, and whoſe entire diameter exceeds ſix inches; from Weimar.

434 An Ammonite about four inches in diameter, in the ſame condition; from the ſame place.

435 A three inch Ammonite, in which the continuation of the coil is rather more diſtinct; from the ſame place.

436 The half of a large Ammonite, which muſt have been viſible to the third coil; from Tyrol.

437 A flatter and rather ſmaller Ammonite, in which the ſecond coil only is clearly diſtinguiſhable; from Pappenheim.

438 An Ammonite which may be traced to the third coil, three inches in diameter, with overlaying Vermiculites; from Querfurth.

439 A two inch Ammonite, which is diſtinguiſhable to the fourth coil; from Hermansdorf in Bamberg.

440 Two ſmaller Ammonites more depreſſed; from the ſame place.

441 Several, in ſome places ſtill ſmaller Ammonites; from the ſame place.

442 A three inch Ammonite very much depreſſed, in other reſpects ſimilar to the foregoing, except that it is bored entirely through in the middle; from Buckſweiler in Alsace.

443 A very much depreſſed ſtill larger Ammonite, in which, however, the chambers of the interior coil are laid entirely open by being ſomewhat damaged; from Altengönna near Jena.

444 Ammonites whoſe fifth coil is yet diſtinguiſhable, and which are ſomewhat ſpiky in the exterior margin; from Frankensdorf in the Canton of Basle.

445 A ſimilar very well proportioned Ammonite, depreſſed towards the centre; from the ſame place.

446 An Ammonite in compact grey marlaceous Limeſtone, which is broken ſo exactly that the petrifaction is diſtinct in both pieces, only reverſed, in the one appearing like an impreſſion; from Altorf.

447 An imbedded Ammonite, in which the thickneſs of the ſhell ſeems to diminiſh very quickly in the ſucceeding coils; from Erfurt.

448 A ſimilar Ammonite with the cells very deeply hollowed; from the Plauishen-Grund near Dreſden.

449 An Ammonite ſomewhat injured in the centre, and the cells themſelves ſhallower; from the ſame place.

450 An Ammonite of this kind which may be traced to the fifth coil; from Altorf.

451 Similar Ammonites, of which two are imbedded in compact Limeſtone, in one of which however the exterior part only remains; from Jena.

452 An Ammonite depreſſed in the centre, almoſt like a funnel; from Tournay in France.

453 Several very beautiful Ammonites with narrow cells, in compact Limeſtone which is mixed with granular ditto; from the Vicentine.

454 A large but indiſtinct Helizite, which meaſures above an inch and three-fourths; from Brugg on the Leutha.

455 A great number of ſmaller but very diſtinct Helizites, exceeding an inch in diameter; from Pilatusberg in Switzerland.

456 A ſimilar but rather ſmaller Helizite, inhering in compact Limeſtone; from Gmünden.

457 Several Helizites from half an inch down, which are very diſtinct; from Turrik in Steiermark.

458 Similar, yet rather ſmaller reticulated Helizites, in compact Limeſtone, which is mixed with much Calcareous Spar; from Hungary.

459 Small, nearly ſmooth Helizites in yellowiſh Limeſtone; from Ronca in the Veroneſe.

460 A multitude of ſmall Helizites compacted together; from Brussels.

461 A petrified Nabelſchnekke in bright grey Limeſtone, in which the diſtance of the outward margin of the coils is three-fourths of an inch from one another; from Switzerland.

Rem. It is remarkable that this Cochlit itſelf is found in a Chamite.

462 Several ſimilar ſlenderer Nabelſchnekke, in ſome

places viſible through all their coils, in the ſame ſort of Stone; from the ſame place.

463 Several rather flatter ſimilar Petrified Nabelſchnekke, in compact Limeſtone; from Aix-la-Chapelle.

464 Minute ſimilar Nabelſchnekke, intermixed moreover with numerous Turbinites; from Querfurth.

465 Several Nabelſchnekke in a ſort of Lumachella; from Würtemberg.

466 Similar though ſmaller Nabelſchnekke in rather dark grey Lumachella; from Cobourg.

467 A Neritite, ſomewhat exceeding an inch in ſize; from Bensberg in the Dutchy of Berg.

468 A ſmaller Neritite about one-third of an Inch in ſize; from Juliers.

469 Tolerably thick Globoſites; from the ſame place.

470 A ſimilar Globoſite, only ſomewhat larger and dilated; from Iudenberg near Gerresheim in the Duchy of Berg.

471 A Globoſite of the firſt variety, with the Apex broken off; from the ſame place.

472 A large Buczinite; from the ſame place.

473 A ſimilar ſomewhat compreſſed Buczinite, which has no ſpines, but merely hoops (Rieſen) lengthways.

474 A more dilated, but delicately ſtreaked Buczinite; from England.

475 A ſimilar though more convex Buczinite, water worn quite ſmooth; from Pontamouſſon in France.

476 Another with ſtill more convex coils; from the ſame place.

477 Three Murizites (murex decollata Linnæi); from Della Guardia in Italy.

478 A ſmall Murizite, laying nearly buried in compact Limeſtone; from Rheims in Champagne.

479 Several very ſmall Murizites compacted together into Lumachella; from the ſame place.

480 Still ſmaller Murizites with numerous other petrifactions in the ſame ſpecimen; from Normandy.

481 A large broad Trochilite, two inches and an half high; from the iſlands of Ferröe.

482 Another, proportionally ſlenderer, and only about two inches high; from Tranſylvania.

483 A very tapering conical Trochilite; from the ſame place.

484 A much lower Trochilite, the two loweſt coils hollow; from Sweden.

485 Some Trochilites, with three ſmooth tolerably convex Coils; from Webersleben.

486 Small Trochilites (Trochus minimus Lin.); from Halberſtadt.

487 A tolerably broad Cochlite, reſembling a Trochite, with an inhering groupe of Calcareous Spar; from Aix-la-Chapelle.

488 A ſimilar Cochlite, having only two coils, but which are more remote from one another; from Mülheim on the Ruhr.

489 A ſimilar Cochlite, but the coils much further ſeparated from one another.

490 Trochite-like Cochlites, with more numerous Coils; from Burvenich in Juliers.

491 A very beautiful Trochite-like Cochlite with five coils, attached beneath, and much better proportioned than the former.

492 A ſimilar one detached, with ſomewhat greater intervals between the coils; from Aix-la Chapelle.

493 A Trochite-like Cochlite, with three even and flatly compreſsed Coils; from Goslar.

494 A Trochite-like Cochlite, which approaches very near to a Turbinite, and is inherent.

495 A large Turbinite, in which five coils are diſtinguiſhable, and which is four inches high and two thick; from Königslutter.

496 An entire Turbinite of five coils, of which the laſt is double the ſize of the ſecond, with ſtill more petrifactions inhering; from Hampshire in England.

497 A Turbinite about two inches long with convex coils, which is half imbeded; from Buchsweiler in Alsace.

498 A Turbinite very broad at the baſe, tapering in the manner of a rightangled triangle, and attached by the uppermoſt coil; from the ſame place.

499 A ſmall Turbinite about an inch and one quarter high, with four coils; from St. Gall in Switzerland.

500 A Turbinite about the ſame ſize, with flat coils cloſely preſſed on one another; from Buchsweiler.

501 Several ſmall, tolerably convex Turbinites in compact Limeſtone; from Jena.

502 A Turbinite with the coils ſulcated lengthways; from Valenciennes in the Netherlands.

503 Many very ſmall Turbinites, laying together in a piece of compact Limeſtone; from Neukirch in Lorraine.

504 A Strombite three inches long and one inch thick, with the coils ſlightly fluted; from Birsen in Würtemberg.

505 Two ſmall Strombites with prominent coils, half imbeded: from Weimar.

506 A Strombite about two inches long, with twelve viſible and rather low coils; from Tranſylvania.

507 A Strombite with undulating rings; from Welsh Neuburg in Switzerland.

508 A ſimilar one, only ſomewhat more ſlender in proportion; from the ſame place.

509 A multitude of Strombites imbeded in Limeſtone; from Jena.

510 Several Strombites, looſe, and as if notched in the coils.

511 Several Conites adhering together, of an inch and half in height and the baſe of each two inches broad; from Kismuchel in Tranſylvania.

512 Unknown Cochlites which are narrow and curved, imbeded in a piece of Limeſtone; from Norway.

513 Similar Cochlites, but rather broader, and in ſome places lunated; from Flanders.

514 A piece of Compact Limeſtone, with ſimilar but leſs curved and more ſlender Cochlites; found as a boulder near Leipsic.

515 The ſame, but moſtly much longer, in grey compact Limeſtone; from Weimar.

516 Other very ſmall unknown Cochlites in compact Limeſtone; from the ſame place.

517 An aſſemblage of various ſmall Strombites, and others of the Cochlite kind; from Thuringia.

518 Another ſimilar mitxure, in which the fore mentioned longiſh Cochlites predominate; from Weimar.

519 Another mixture alſo, from which many appear to have fallen out, and thoſe ſtill remaining in it are quite indiſtinct; found near Naumburg.

520 A large and beautiful Diſzite; from Neuſtadt at Rübenberg in Hanover.

521 Another flatter Diſzite, not much ſmaller, but not more diſtinct at the extremity (am Schloſſe); from the ſame place.

522 A multitude of ſmall Diſzites ſcarcely an inch in ſize, with many Ammonites and numerous other Cochlites in compact Limeſtone; from Weimar.

523 A large Pectinite; from Ariſtorf in the Canton of Baſle.

524 Fragments of a very large ſimilar Pectinite; from Quedlinburg.

525 A ſmall Pectinite about an inch and quarter long; from Ammerbach near Jena.

526 Small Pectinites, which affect the likeneſs of Chamites; from Querfurth.

527 A ſimilar Pectinite, with very delicate ſtreaks; from Weimar.

528 Pectunculites detached and ſingle.

529 A multitude of tolerably coarſe ſtreaked Pectunculites in compact Limeſtone; from Weimar.

530 The ſame doubled, (as is figured in Walch a. a. O. in the middle) imbeded in Limeſtone; from the ſame place.

531 Small Pectunculites with rather more delicate ſtreaks; from Goſlar.

532 The ſame imbeded, whoſe ſtreaks are partially abraded by continued rolling in water; from Altorf.

533 Delicate Pectunculites, with many Conchites in Limeſtone; from Weimar.

534 The ſame rather delicately ſtreaked, with impreſſions of Pectinites; from Dreſsendorfberg near Bareüth.

535 Very delicately ſtreaked Pectunculites, abundantly inlaying in Limeſtone; from Weimar.

536 Extremely delicately ſtreaked Pectunculites; from the ſame place.

537 Small and in ſome places incomplete Pectunculites in Limeſtone; from Altorf.

538 A ſmooth Chamite about two inches and an half long and broad; from Waldenheim in Alſace.

539 Two Chamites quite cloſely connected by their ſtraight ſides, which appear almoſt like a Bucardite; from Boll in Würtemberg.

540 Somewhat

540 Somewhat ſmaller, ſimilar, ſmooth Chamites, in which both ſhells are ſtill viſible; from Pyrmont.

541 A large, ſimilar Chamite of which only one ſhell is viſible, but which is above three inches long; from the ſame place.

542 A ſmall and more dilated Chamite; from Gersheim.

543 A ſimilar Chamite, in which the proportion of the length exceeds the breadth; from Guntershofen near Buchsweiler in Alſace.

544 Small ſimilar Chamites in a very marlaceous Limeſtone, with many Cochlites; from Paris.

545 Still ſmaller, curved Chamites an inch long, with Pectunculites in Limeſtone; from Altorf.

546 A two inch Chamite which exhibits delicate ſtreaks; from Querfurth.

547 A Chamite with ſome tranſverſe wrinkles on Limeſtone; from the ſame place.

548 Very delicately longitudinally ſtreaked Chamites; from the ſame place.

549 An entire, ſtreaked Chamite with linear ſtreaks, two and an half inches long and three broad; from Stühlhofen in Alſace.

550 Small, very delicately but cloſely ſtreaked and imbeded Chamites; from Thuringia.

551 A large, more than three inch Chamite in which the ſtreaks, particularly on the outer margins are diſtinct; from Querfurth.

552 Several Chamites in which the ſtreaks on the ſurface are viſible and ſink a little deeper than in the foregoing; from Weimar.

553 Two Chamites furniſhed with very numerous moderately deep ſulcations; from the ſame place.

554 A multitude of ſimilar imbeded Chamites, ſome of them above two inches long and broad, with ſmooth ditto; from Weimar.

555 Two very deeply ſulcated Chamites; from the ſame place.

556 A ſimilar ditto, whoſe breadth notably exceeds the length; from the ſame place.

557 A Chamite ſomewhat compreſſed at the apex; from the ſame place.

558 Two ditto, very much compreſſed, on Limeſtone; from Jena.

559 A ſtreaked Chamite with a remarkable impreſſion at the poſterior margin; from the ſame place.

560 A petrifaction which from the Chamite, approaches very much to the Pectinite; from Alſace.

561 A Chamite, which not only on account of its deep ſulcations but alſo of its beak, forms the tranſition into the Pectinite, on Limeſtone; from the ſame place.

562 Half of a Bucardite; from the Alp in Würtemberg.

563 A large five ribbed Oſtrazite with very well-defined ribs; from Villabanya in the Bannat.

564 A large tranſverſe wrinkled Oſtrazite, very prominent, ſix inches broad and five long, with deep channels; from Tranſylvania.

565 A ſimilar ſmaller ditto, three and an half inches broad and two long, alſo on Limeſtone; from the ſame place.

566 A very wrinkled Oſtrazite, appearing as if fallen in in the middle of the back; from Henſtadt in Rübenberg.

567 A piece of a very prominent Oſtrazite, the upper part perforated by the Pholas; from Weymouth in England; its breadth exceeds ſeven inches, but the length is only three.

568 A ſimilar piece of a large Oſtrazite, only ſomewhat flatter, and broken off from the ſide; from the Bannat.

569 A piece of a ſtill flatter Oſtrazite, ſo exactly broken off, that the middle of a very deep channel is perfectly viſible; from the ſame place.

570 A plate of a very curved Oſtrazite, of which the length exceeds five inches and the breadth nine; from the ſame place.

571 An Oſtrazite very deeply hollowed out in the center; from the ſame place.

572 A very flat but broad Oſtrazite; from Ariſtorf in Swiſserland.

573 A ſtill flatter and alſo ſmoother Oſtrazite; from Hilgeland.

574 Small wrinkled Oſtrazites, in the manner of Walch's 17th Fig; from the Bannat.

575 Small irregular Oſtrazites, in a rather marlaceous Limeſtone; from Linden near Hanover.

576 Two broad and ſmooth Terebratulites; from Gemmingen.

577 A ſomewhat longer Terebratulite; from Weimar.

578 A perfect portion of a ſimilar, but rather ſmall Terebratulite, which at the moſt meaſured an inch; from the ſame place.

579 A Terebratulite prominent and imbeded in Limeſtone, wherein alſo a groupe of Calcareous Spar occurs; from Blaubeuren in Würtemberg.

580 A Terebratulite very convex; from the Asser.

581 Terebratulites which particularly at the inferior margin appear to be doubly twiſted; from the ſame place.

582 Extremely delicately ſtreaked Terebratulites; from the ſame place.

583 More ſtrongly ſtreaked Terebratulites; from Poland.

584 Smaller Terebratulites, the ſize of large peas, with equally ſtrong ſtreaks; from the ſame place.

585 Terebratulites which are very ſtrongly ſtreaked, and once twiſted at the inferior margin; from Metz in Lorraine.

586 Terebratulites very deeply ſulcated and rather larger; from Champagne.

587 A very ſtrongly ſtreaked Terebratulite in which the twiſt reaches almoſt to the break; from the ſame place.

Rem. The ſtreaked and doubly twiſted varieties are called winged Ananites.

588 An Hyſterolith; from Gothland.

589 A ſmall Trigonelle on Limeſtone; ſrom Weimar.

590 A ſomewhat larger Trigonelle, in which the plaits or folds are no longer ſo diſtinguiſhable; from Querfurth.

591 A ſimilar but ſomewhat larger Trigonelle, ſtill imbeded in Limeſtone; from the ſame place.

592 A Pinnite, only ſtreaked tranſverſely; from Switzerland.

593 A very prominent, ſplit, ſmooth Gryphite, an inch

and half broad and nearly as long; from Gera in Ruſsia.

594 A Gryphite which is a little flatter; from the ſame place.

595 A rather ſmaller Gryphite; from the ſame place.

596 A multitude of the ſame ſort, which exhibit traces of delicate tranſverſe wrinkles; from the ſame place.

597 A ſmaller Gryphite with a very deep ſplit above; from Bebenhausen in Würtemberg.

598 Two ſtill ſmaller and flatter; from the ſame place.

599 A Gryphite very flat, with a much leſs curve; from the ſame place.

600 A ſimilar Gryphite on black compact Limeſtone; from Swarzburg.

601 A Gryphite, ſomewhat, but ſcarce perceptibly, ſtreaked longitudinally; from Gera.

602 A ſimilar Gryphite, with numerous diſtinct ſimilar ſtreaks; from Alsace.

603 Several Gryphites, partly very deeply ſulcated, with ſmooth ditto in Limeſtone; from the ſame place.

604 A very long Mitilite, which ſeems to have been the Militus anatiferus Linnæi; from Thalheim in Würtemberg.

605 A ſomewhat ſmaller Mitilite, wrinkled tranſverſely, on compact Limeſtone; from Thuringia.

606 A ſmall, ſomewhat curved Mitilite, whoſe greateſt dimenſion exceeds an inch and quarter; from Breigg on the Leitha.

607 Numerous Mitilites meaſuring about half an inch, with many Cochlites; from France.

608 A Cochlite broken off in the middle, whoſe ſhape is injured and thence not eaſily determined, but ſeems to belong to this place; from Jena.

609 Fragments of Solenites, the greateſt dimenſions of the largeſt being three inches, and the ſmalleſt half an inch; from the vicinity of Leipsic.

610 A piece of a large Solenite, whoſe greateſt dimenſion exceeds ſix inches, and the diameter one and three-fourths; from Hesse.

611 Another piece of a ſimilar Solenite, in which the greateſt dimenſion exceeds three inches, but the ſmalleſt, one and a half; from the ſame place.

612 Quite flat ſmall Muſculites in compact Limeſtone, with Pectunculites; from Weimar.

613 Somewhat larger and in ſome reſpects ſimilar Muſculites, but with ſmooth ſhells; from Hungary.

614 Similar Muſculites with both ſhells, and detatched; from Italy.

615 Rather longer Muſculites; from Benſtadt near Halle.

616 Two moderately large and prominent Tellenites; from Iceland.

617 A Tellenite ſtill longer, both abſolutely and relatively; from Italy.

618 A Tellenite rather ſmaller and more prominent, two inches long and an inch and line broad, in compact Limeſtone; ſrom Weimar.

619 A ſomewhat ſmoother Telſenite, a little twiſted on one ſide; from Dikholtz in Hildesheim.

620 A ſmaller Tellenite, whoſe length is ſtill more conſiderable in compariſon to the breadth; from Prague.

621 An almoſt equilateral Tellenite; from Weimar.

622 A moderately flat Tellenite, whoſe ſides are more unequal.

623 One ſhell of a very flat Tellenite, ſtudded with Pectunculites on the under ſide; from the ſame place.

624 A large Mitilite, but ſomewhat damaged on one margin, whoſe length exceeds ſix, and the breadth three inches; from Würtemberg.

625 A ſimilar rather prominent Mitilite, three inches long and one and three-fourths broad; from Langensalz.

626 A ſtill ſmaller Mitilite, in which the tranſverſe ſtreaks are remarkable, two inches long and one and one-third broad; from the Teufelskrippe near Jena.

627 Two Mitilites, with a much greater difference of the proportion of the length towards the breadth, ſince the one exceeds two inches and a half, but the other is only one inch and two lines; from the ſame place.

628 Two Mitilites, with the tranſverſe ſtreaks every where viſible, two and one-fourth inches long and one and one-fourth broad; from the ſame place.

629 A Mitilite preſſed quite flat at the termination; from Weimar.

630 A great number of beautiful very diſtinctly deep

wrinkled Mitilites, of at leaſt two inches long, in Limeſtone; from the ſame place.

631 Several Mitilites about half ſo long, in Limeſtone; from the ſame place.

632 A ſmall Mitilite, with partly fainter, and partly deeper wrinkles; from the ſame place.

633 A Mitilite two inches long, with wrinkles which are now diſtinct only on the half of the upper margin; from Langensalz.

634 A very flat Mitilite; from Querfurth.

635 A ſtill flatter, very much elongated Mitilite; from Würtemberg.

636 A ſimilar, only ſomewhat ſmaller Mitilite; from Weimar.

637 Three rare jagged Donazites, the largeſt of which is two inches long and two and a half broad; from Buchsweiler in Alsace.

> *Rem.* The original is the ſo named Bettlermuſchel, which is conſidered by Linné with perfect accuracy as a variety of the Venus Muſcle.

638 Single branches of Coralliolites, in Limeſtone; from Switzerland.

639 Coralliolites more numerous and ſlender, in a Boulder found near Jena.

640 Single tubes of Coralliolites, which however ſeem to belong to the Madrepore, in Limeſtone; from Sweden.

641 Single Tubiporites; from the Iſland of Gothland.

642 Several Tubiporites heaped on one another; from the ſame place.

643 A very beautiful Tubiporite, four and a half inches long and two and a half broad, in which at leaſt from twelve to ſixteen tubes are connected; from the ſame place.

644 Single Madreporites, found in compact Limeſtone; from Gothland.

645 Madreporites projecting out of the Stone; from the Vicentine.

> *Rem.* Theſe ſeem to have been the Madrepora Prolifera Lin.

646 Several Madreporites concreted together in one piece; from the ſame place.

647 A very ſlender Madreporite, on and in compact Limeſtone; from Blaubeuren in Würtemberg.

648 A tubular and at the ſame time a cellular ſhaped Madreporite; from Prague.

649 Madreporite, alſo tubular, but the tubes are filled up and ſo project, that it reſembles the Roeſtone; from the Canton of Basle.

650 A beautiful Aſtroit; from Hedrington in England.

651 A ſimilar Aſtroit, but ſomewhat abraded; from the ſame place.

652 Another ſort of Aſtroit, in which the ſtars have a ſcopiform appearance.

653 A ſimilar variety, but ſtill more coarſely ſtriated; from Sweden.

654 An extremely delicate Aſtroit, cloſely imbeded, ſo that the rays are diſcovered only, and with ſome difficulty, by holding it before the light; from Echterdingen in Würtemberg.

655 A very beautiful Mäandrite; from Fliessenbruch in the Upper Palatinate.

656 A ſmaller cohering Mäandrite; from Gothland.

657 A ſomewhat abraded Mäandrite; from the ſame place.

658 A very much abraded Mäandrite; from Pfeffingen in the Canton of Basle.

659 An exceedingly damaged Mäandrite, of which only fragments are to be ſeen; from Mietau.

660 A Fungite with an extremely ſhort ſtem, not quite two inches in ſize; from Randberg in Switzerland.

661 An only one inch Fungite, with a ſtem proportionably much longer; from Derbyshire.

662 A two inch broad Fungite, whoſe height with the ſtem is one inch and one-third; from the ſame place.

663 A Fungite an inch and half broad and as much high; from the Mountains near Trieste in Austria.

664 Two irregular and rather indiſtinct Fungites, with long ſtems; from Tranſylvania.

665 A ſtill more miſhapen Fungite; from Norway.

666 Several, apparently imbeded in one another, ſhort

ſtemed, therefore indiſtinct Fungites; from Giergen in Suabia.

667 An abraded porous Fungite with an internal conical depreſſion; from Basle in Swiſſerland.

668 A ſimilar though ſmaller and not ſo much depreſſed porous Fungite; from Upper Auſtria.

669 Two Hippurites, on the inſide of which cells are ſtill diſcoverable; from Gothland.

670 Several Hippurites, ſhaped exactly like ſlippers; from the ſame place.

671 A very large Eſcarite, in which the entire piece is diſtinctly incruſted with the Retipore; from Nusshof in the Canton of Basle.

672 A ſimilar ditto, abraded in many places; from the ſame place.

673 An almoſt round cellular Eſcarite; from Gothland.

674 The ſame abraded in various places; from the ſame places.

675 A ſimilar Eſcarite, diſtinct now only in ſome places, in a boulder; from the ſame place.

676 An Eſcarite which proves ſomewhat oblong cellular; from Arneburg.

677 A very long cellular Eſcarite, in which the tranſverſe ſtreaks are leſs diſtinct; from Berg.

678 A ditto, without obſervable tranſverſe ſtreaks; from Swiſſerland.

679 A ſimilar Eſcarite, in which the longitudinal furrows ſink very deep; from Gothland.

680 An Eſcarite with very crouded ſtreaks; from Mietau.

681 An exceedingly finely curved-ſtreaked Eſcarite, in a boulder of Compact Limeſtone which is cut through the middle and poliſhed; from Swiſſerland.

682 A number of ſmall aggregated Porpites; from Lorraine.

683 Very many ditto, quite detached, partly ſtellularly ſtriated, the ſize of large peas; from Buchsweiler in Alsace.

684 A delicate Milleporite; from Gothland.

685 A Ceratoſite, extremely probably of the Gorgonia Linnæi; from Neufchatel.

b, b. Rough, only ſlightly altered, inlaying extraneous bodies.

686 Small Sea-urchins ſtill preſerving their natural ſhells; from Bareuth.

687 A piece of Compact Limeſtone with many inlaying Volutes, Strombites, Turbinites and purple ſnails; from the vicinity of Frankfurth on the Main.

688 A ſmall piece of Compact Limeſtone with an inlaying Röhrenschnekke; from the Rhine.

689 Marlaceous Limeſtone with an incumbent ſhell of a Jacobs muſcle which is two and three-fourth inches long and two broad; from Oedernburg in Hungary.

690 A ſmall delicately ſtreaked ditto, an inch long; from the ſame place.

e. Impreſſions of extraneous bodies.

691 The impreſſion of a fiſh ſceleton with the bones, on Compact Limeſtone; from Mäſtricht.

692 A ditto in a ſtraighter poſition, with a larger quantity of bones, therefore leſs diſtinct; from the ſame place.

693 A ſmaller ditto, curved in the middle almoſt circularly; from the ſame place.

694 A very ſlightly curved impreſſion of a fiſh; from the ſame place.

695 A ſmall, moderately narrow, very ſlightly curved fiſh impreſſion; from the ſame place.

696 A ſhorter but broader ditto,; from the ſame place.

697 A ſimilar ditto which ſinks very deep into the Limeſtone; from the ſame place.

698 A ſimilar delicate fiſh impreſſion, which is overlaid with calx of Manganeſe forming a dendritical figure; from the ſame place.

699 Limeſtone with the impreſſion of a large freſh water crab; from Winterhofen near Eichstadt.

700 A piece of Compact Limeſtone with impreſſions of Trochites; from Weimar.

701 Ditto, with impreſſions of Belemnites; from Switzerland.

702 The prominent impreſſion of an Ammonite on Compact Limeſtone; from Mäſtricht.

703 The ſunk impreſſion of an Ammonite on the ſame Limeſtone; from the ſame place.

704 Marlaceous Limeſtone with impreſſions of Strombites; from Chaumont in Normandy.

705 The ſame with impreſſions of Chamites, with ſome ditto actually imbeded; from Thuringia.

706 The ſame with impreſſions of ſtreaked Chamites; from the ſame place.

707 Compact Limeſtone with impreſſions of Pectunculites; from Weimar.

708 Compact Limeſtone with impreſſions of Mitilites; from Würtemberg.

709 The impreſſion of a Scheiden-muſcle in Compact Limeſtone, which is ground and glued to paſteboard; from Heſſe.

710 An indiſtinct impreſſion of a large muſcle on Limeſtone; from the ſame place.

711 Small indiſtinct impreſſions of ſhells in a ſomewhat Marlaceous Limeſtone; from Champagnè.

712 Fungite impreſſions in a Marlaceous Limeſtone; from the ſame place.

713 Compact Limeſtone with the impreſſion of a compleat Bouquet; from the Auſtrian Netherlands.

714 A piece of Compact Limeſtone with the impreſſion of a very large Oakleaf; from Cobourg.

715 A very diſtinct impreſſion of an Oakleaf on Marlaceous Limeſtone; from the ſame place.

716 A very long ſimilar impreſſion of a leaf on the ſame ſort of ſtone; from Blankenburg in the Hartz.

717 Several ſimilar leaf impreſſions laying upon and in each other, of the ſame ſort as is repreſented in Walch a. a. O. 21. tab. 3. only that theſe have indented margins; from Cobourg.

718 A ſimilar leaf impreſſion, but in which the lateral veſſels of the leaves are either not at all or only with great difficulty diſcoverable; from Dresden.

719 A ſimilar ditto, whoſe original however is longer, and the lateral veſſels are a little more diſtinct; from Würtemberg.

720 Numerous impreſſions of leaves, of the ſort as in Gmelin a. a. O. 364. fig. of the 32d Tab.

721 A ſimilar only ſhorter ditto.

722 An impreſſed leaf, wherein much more of the fineſt capillary veſſels are viſible, but in other reſpects ſeems to belong to this variety.

723 Another but unknown impreſſion of the leaf of a tree; from Swiſserland.

724 A ſimilar ditto, of which only the half is diſtinguiſhable; from the ſame place.

725 A leaf impreſſion in which it appears almoſt as if a true petrifaction had taken place; from the ſame place.

Rem. All theſe mere impreſſions are uſually, but erroneouſly, called in general Bibliolithi.

d. *Compact Limeſtone mixed with other Foſſils.*

726 Compact Limeſtone overlaid in the clefts with granular ditto; from Upper Luſatia.

727 A piece of grey Compact Limeſtone, with much intermixed, ſmall grained white Calcareous Spar; from the ſame place.

728 Grey Compact Limeſtone mixed with pyramidally cryſtallized Calcareous Spar and beſides with many impreſſions of Fungites; from Upper Auſtria.

Rem. A great Geological Rarity.

729 Grey Compact Limeſtone with ſeveral acute hexhædral pyramidally cryſtallized Calcareous Spar groupes, and numerous inlaying Pectunculites; from Thuringia.

730 Compact Limeſtone with inlaying granular ditto, Martial Pyrites and a calcareous Ammonite; from Hildesheim.

731 Compact Limeſtone with numerous Pectunculites and ſuperficial Copper Pyrites; from Thuringia.

732 Yellowiſh and ſmoke grey Limeſtone, with cryſtallized Calcareous Spar on the ſurface, and much Galena intermixed in the ſtone; from the Hartz.

B. *Swine Stone.*

733 Smoke grey inclining to yellowiſh grey Swine Stone; from Eiſleben.

C. *Marle.*

a. Independantly conſidered.

734 Yellowiſh white indurated Marle nearly approaching to Compact Limeſtone; from Champagne.
735 Yellowiſh grey ſimilar indurated Marle; from Eiſleben.
736 Smoke grey indurated Marle; from Eiſleben.
737 Greyiſh white indurated Marle; from Champagne.

b. With relation to encloſed extraneous bodies.

a. a, Stone Nuclei.

738 A piece of indurated Marle incloſing two Echinites in high preſervation; from Switzerland.
739 A Belemnite in yellowiſh grey Marle; from Dreſden.
740 Indurated Marle with Orthoceratites, inlaying Belemnites and other petrifactions; from the Canton of Bern.
741 The ſame, with ſlender Orthoceratites and numerous Conchites; from the place.
742 Sulcated Tubulites petrified to Marle; from the Northern Coaſt.
743 A beautiful Ammonite in Marle, exceeding two inches in diameter; from Würtemberg.
744 Petrified Nabelſchnekke, in indurated Marle; from Thuringia.
745 A moderately thick Trochit-like Cochlite, in the ſame ſort of ſtone; from Petersberg near Mäſtrich.
746 A multitude of Turbinites with numerous Conchinites in the ſame ſort of ſtone; from the ſame place.
747 The ſame with lower coils and different other Cochlites and alſo Conchites; from the ſame place.

748 A ſmall Turbinite in a very argilliferous indurated Marle; from Hüttenrode in the Hartz.

749 A ſmall Diſzite in indurated Marle; from Goslar.

750 A Pectinite in ditto; from Upper Lusatia.

751 Very numerous ſmooth Chamites with other Conchites in the ſame ſort of ſtone; from Petersberg near Mäſtrich.

752 A Chamite ſomewhat longer; from Issy.

753 A moderately flat, ſtreaked Chamite; from Upper Lusatia.

754 A piece of a Chamite deeply ſulcated on the ſide; from the ſame place.

735 A very deeply ſulcated Chamite; from Weimar.

Rem. This Marle loſes itſelf by degrees into Limeſtone.

756 A large ſingularly fine Marlaceous Bucardite, four inches long and four and one-half broad; from Boll in Würtemberg.

757 Two Mitilites in indurated Marle; from Dresden.

758 Two large detached Mitilites which are two inches inches long, and one and one-half broad; from Swisserland.

759 Several ſmall ditto, an inch and one-half long and ten lines broad; from Goslar.

760 A very ſingular muſcle petrifaction which would almoſt ſeem to have been a Chiconite furniſhed with eight valves.

761 A very beautiful Eſcarite exactly like a net, with numerous Conchites on indurated Marle; from Petersberg near Mäſtrich.

762 A much more indiſtinct Eſcarite, on a Marle mixed with Limeſtone; from Thuringia.

763 A ſingular foliated Coralliolite, which is perhaps an imperfect Fungite; from Mäſtrich.

764 A Tubiporite which is ſhaped like a clove coral; from the ſame place.

765 A ſimilar, more tubular Coralliolite, on the ſame Calcareous Marle; from the ſame place.

766 Several Marly petrifactions which ſeem to be Carpolites; from Kommatau in Bohemia.

767 Perfectly ſimilar, but more ſlender ditto; from the ſame place.

768 The ſame, leſs regular; from the ſame place.
769 Other ditto, probably Carpolites, ſhaped more cylindrically; from Silesia.

b. b. Impreſſions.

770 Indurated Marle with the impreſſion of a Mitilite ſtrongly ribbed tranſverſely; from Thuringia.
771 A leaf impreſſion preciſely as in Gmelin, a. a. O. 32d Tab. fig. 364.
772 Another leaf impreſſion extremely like a Tulip-leaf; from Mäſtrich.
773 An oblong depreſſion in Marle, whoſe true extraneous origin can with great difficulty be diſcovered.

c. Marle mixed with other Foſſils.

774 A beautiful large Calcareous Spar groupe in Marle; from Upper Lusatia.
775 Thick ſuperficial Copper Pyrites on indurated Marle; from Mansfeld.

B. *Bituminous Marlite.*

776 Greyiſh black thick ſlaty Bituminous Marlite; from Mansfeld.
777 Ditto, moderately thick ſlaty, with a very ſtraight fiſh impreſſion eight inches in length; from the ſame place.
778 A ſimilar variety but with the neck of the fiſh ſomewhat curved; from the ſame place.
779 A ſimilar fiſh impreſſion on Bituminous Marlite, but in which the whole body is curved in a circular form; from Rieselsdorf in Hesse.
780 A ditto, in which the curvature is more parabolic; from the ſame place.
781 A ſpheroid of Bituminous Marlite with a fiſh impreſſion internally, in which the fins are ſtill viſible, and which very much reſembles the Carpio caraſſus; from the ſame place.
782 A ſimilar ſhorter and proportionably broader ſpheroid with

with a ſimilar fiſh in the center, but in which neither head nor tail nor fins are viſible; from Mansfeld.

2. SANDSTONE.

a. Siliceous Sandſtone.

a. a. Alone conſidered.

783 Greyiſh white ſmall-grained Sandſtone; from Voightland.

784 Greyiſh white more coarſe-grained Sandſtone; from Cobourg.

785 Greyiſh white mixed with greeniſh grey Sandſtone; from the ſame place.

786 Browniſh red Sandſtone; from Eisleben.

787 Greeniſh grey red ſpotted Sandſtone; from Naumburg.

788 Reddiſh brown Sandſtone mixed with white, in which the former colour predominates and reſembles a ſort of Avanturine; part of a boulder found near Leipsic.

789 A perfectly oviform Sandſtone pebble, five inches long, three and one-half broad and two inches thick; from the Pleiss.

790 Coarſe-grained Sandſtone, which at the ſame time is rather ſpongy; from Weissenfels.

791 Small-grained Sandſtone, with inlaying ſeparate coarſe Quartz grains; from Thuringia.

792 Extremely fine-grained Sandſtone, therefore graduating into Quartz; from Spa.

b. b. With Petrifactions.

793 A petrified Sea Star with five arms, on Sandſtone; from Sienna in the Dutchy of Florence.

794 A ſimilar piece, with three Sea Stars penetrating each other; from the ſame place.

795 A petrified Turkiſh Turban, in Sandſtone; from Dresden.

796 A ſmall Echinite of the ſort called Egg-urchin, but lower,

er, with the mouth and anus both viſible; from Batsch in Transylvania.

797 A Turbinite in Sandſtone; from Pontamousson in France.

798 A Pectinite in Sandſtone; from Pria.

799 A ſtreaked Chamite in Sandſtone, with both ſhells ſtill remaining; from Upper Lusatia.

800 Several ſmooth Chamites in Sandſtone; from the vicinity of Naumburg.

801 A ſingle delicately ſtreaked Chamite attached by the point; from the ſame place.

802 A Trigonelle in Sandſtone, one and an half inch broad and nearly as long; from Switzerland.

803 A large petrified Heart Muſcle in Sandſtone; from the Waltersdorf-Buchberg in Upper Lusatia.

804 Similar petrified Muſcles, but not ſo diſtinct as the foregoing and flatter; from the ſame place.

805 A Mitilite four and a half inches long and two broad; from Upper Lusatia.

806 a Another damaged on one ſide, therefore only three inches long and one broad; from Naumburg.

806 b A very large piece of Sandſtone with extremely numerous inlaying Chamites and Turbinites, which are in a ſtate of very beautiful conſervation; from Hesse.

807 Porpites a little compreſſed on the under ſide; from Mechlenburg.

808 An extremely fine Tubiporite, moſt probably of the Tubipora Muſica; from Sweden.

809 Another alſo very beautiful Tubiporite (perhaps the Tubipora Captenularia); from the ſame place.

810 A very much abraded Tubiporite; from Sweden.

811 A Fungite, two inches in diameter and one and three-fourths high; from Lubec.

812 A net-like Eſcarite; from Switzerland.

813 A fine ſtreaked Eſcarite, net-like only in one place; from the ſame place.

814 A very much abraded Eſcarit; from Poland.

c. c. *Mixed with other Foſſils.*

815 Sandſtone with inlaying Flint; from Poland.

816 Very compact black Sandſtone with diſſeminated

Cinabar and the ſo called Quickſilver Kugelerz; from Idria.

b. Argillaceous Sandſtone.

a. a. Independently conſidered.

817 Yellowiſh white Argillaceous Sandſtone; from Pirna.

818 Greyiſh white ſmall-grained Argillaceous Sandſtone; from Naumburg.

819 Yellowiſh grey Argillaceous Sandſtone; from Cobourg.

820 Pale greeniſh grey Argillaceous Sandſtone; from Kiphaüser in Thuringia.

821 Fine-grained yellow and grey ſpeckled Argillaceous Sandſtone; from England.

822 Reddiſh and white ſpeckled Argillaceous Sandſtone; from Mansfeld.

823 Argillaceous Sandſtone mixed with more red; from Kiphaüser,

824 Dark reddiſh brown Argillaceous Sandſtone; from Cobourg.

825 Small-grained red Argillaceous Sandſtone; from Upper Lusatia.

826 Small-grained Argillaceous Sandſtone mixed with coarſe-grained; from Langenau in the Saalkreis.

827 Quite coarſe-grained Argillaceous Sandſtone, with adhering fine-grained; from Cobourg.

Rem. It approaches to the Grey Wacke.

828 Very diſſimilarly grained Argillaceous Sandſtone, with very coarſe-grained, indeed in ſome places large-grained Quartz; from Upper Lusatia.

829 Similar coarſe-grained Sandſtone, with much intermixed decayed Felſpar, ſo that the whole paſſes into Porphyry; from the Saalkreis.

b. b. Petrifactions.

α. Stone Nuclei.

830 An Ichtiolite, upon and in Sandſtone; from Heſse.
831 A large Buccinite in Sandſtone; from Iſsy near Paris.
832 A petrified Jacob's Muſcle with broad ribs, three inches long and two broad; from Champagnè.
833 A Jacob's Muſcle very regular, with both ears preſerved, nearly three and an half inches long and three broad, with ſome Vermiculites; from the ſame place.
834 A quantity of ſmall Pectunculites; from Thuringia.
835 One ſhell of an Oſtrazite; from Biberach in Swabia.
836 A piece of a large Oſtrazite; from the ſame place.
837 A petrified hooped Chamite; from Upper Luſatia.
838 A ſmall ſmooth Chamite; from Biberach.
839 Carpolites occurring not ſparingly in a piece of Sandſtone; from Bohemia.

β. Rough Shells.

840 A piece of Sandſtone with a ſtill rough Jacob's Muſcle, laying on the ſurface; from Quedlinburg.
841 Sandſtone with very numerous inlaying rough Tellinites; from the Old Burg near Weimar.
842 A three inch long and nearly as broad Tellinite, on Sandſtone; from Suabia.
843 Another of this kind, in which both ſhells cohere thro' the medium of Sandſtone; from Lorraine.
844 Sandſtone with many inlaying rough Mytilites; from the ſame place.
845 Very coarſe Sandſtone, with many incumbent impreſſions of leaves of trees; from Altsattel.

c. c. With other Minerals inlaid.

846 Sandſtone incloſing a large piece of Quartz; from Kiphauser.
847 Sandſtone with inlaying Calcedonic flint; from Poland.

848 Sandſtone with inlaying Argillite upon Limeſtone; from Unterrussdorf in Upper Lusatia.

849 Micaceous and very ſlaty Sandſtone; from Mansfeld.

850 Argillaceous Sandſtone, with much intermixed Martial Pyrites, Cinabar, and ſome Calcareous Spar; from Idria.

851 Sandſtone with intermixed Galena, vitreous Copper Ore, alſo ſome compact brown Iron Stone and much Calcareous Spar; from Camsdorf.

852 Sandſtone with much vitreous Copper Ore and ſome Malachite, of which the former appears to traverſe it in ſlips; from the mine Frolowa, in the Werchoturian diſtrict of the Urals, in Siberia.

853 Sandſtone, intermixed in addition with Copper Pyrites and a little fibrous Malachite; from the ſame place.

d. d. Foſſils occurring in it forming Veins.

854 Slate Coal from Wehrau in Upper Lusatia, which occurs there in Sandſtone.

c. Ironſhot Sandſtone.

a. a. Conſidered by itſelf.

855 Ochre yellow Ironſhot Sandſtone; from Mansfeld.

856 A very flat boulder of yellow Ironſhot Sandſtone; from Leipsic.

857 A large boulder of red Ironſhot Sandſtone; from the ſame place.

b. b. With reſpect to Extraneous Bodies.

a. Stone Nuclei.

858 Very Ironſhot Sandſtone, with inlaying Screwſtones; from Upper Lusatia.

859 A ſimilar piece, with very large Screwſtones, together with an impreſſion of the ſame in one place; from the ſame place.

860 Ironſhot Sandſtone, with inlaid Pectinites; from Marienthal.

861 An extremely Ironſhot Sandſtone, with many Trigonelles; from Barnthal near Goslar.

862 A petrified Heart Muſcle, in which the Nucleus is Calcareous, and the upper part Ironſhot Limeſtone; from the ſame place.

863 A rather indiſtinct Chamite in Ironſhot Sandſtone; from Weimar.

864 Three Hyſterolites in Ironſhot Sandſtone; from Mayence.

β. *Rough Extraneous Bodies found in it.*

865 Ironſhot Sandſtone with many inlaid rough Tellinites; from Mayence.

866 Sandſtone with rough ſhells of the common Gien Muſcle; from Würtemberg.

867 Sandſtone, in which alſo a pair of Nerites are imbedded; from the ſame place.

868 Sandſtone with impreſſions of Pectinites; from Thuringia.

B. *Grey Wacke or Rubble Stone.*

a. Alone conſidered.

869 A very coarſe-grained Grey Wacke, conſiſting of Siliceous Schiſtus, Quartz, and common Sandſtone as a cement; from Clausthal in the Hartz.

870 Rather ſmall-grained Grey Wacke, of the ſame conſtituent parts; from the Upper Hartz.

871 A green Wacke, ſpotted with white; from Osterröderberg.

872 Moderately ſmall-grained Grey Wacke, only here and there with ſolitary coarſe grains; from the Hartz.

873 Uniformly ſmall-grained Grey Wacke, with incumbent Argillite; from the ſame place.

b. With other Bodies.

874 A Mitilite in Grey Wacke; from the Hartz.

875 Grey Wacke with intermixed and traverſing Calcareous Spar; from the ſame place.

876 Grey Wacke with incumbent Gypſum and diſſeminated Martial Pyrites; from Cobourg.

C. *Pudding Stone.*

877 A reddiſh brown, ſpotted with yellowiſh grey, Pudding Stone; from England.

878 Reddiſh brown, ſpotted with greyiſh white, Pudding Stone; from the Weſtern coaſt of the Caspian Sea.

Rem. Hitherto they were only Quartz grains that occurred.

879 A Pudding Stone in which beſide the Quartz grains, indurated Clay and Siliceous Schiſtus occur in a very Ironſhot maſs; from West Gothland.

880 A very ſingular Pudding Stone, conſiſting of compact brown Ironſtone, which is cemented in ſome places by Zeolite, both between themſelves and alſo with ſome particles of Quartz; from Sweden.

881 A Pudding Stone in which a large quantity of Argillite occurs; from Cobourg.

Rem. This is the tranſition into Grey Wacke.

882 A ſimilar Pudding Stone, in which both Hornſtone and a Quartz Spheroid the ſize of an hen's egg, lay enveloped; from the ſame place.

883 A perfectly ſimilar Breccia, with numerous traces of ſea weed having formerly lain upon it; from the ſame place.

3. *MINERAL COAL STRATA.*

A. *Slate Clay.*

a. *Independently conſidered.*

884 Smoke grey Slate Clay; found between Halle and Eisleben.

885 Greyiſh black Slate Clay; from Wettin in the Saalkreis.

b. *On account of the Impreſſions.*

886 Slate Clay with long impreſſions of Sedge; from Wettin in the Saalkreis.

887 A piece of Slate Clay with ſimilar, but rather broader impreſſions; from the ſame place.

888 Slate Clay with very numerous impreſſions, both of Sedge and thorny Euphorbium; from Weſtphalia.

889 Slate Clay with an impreſſion of the herb Horſe-tail; from Potschappel near Dresden.

890 Slate Clay with a very narrow leafy impreſſion of the herb called Featherball; from Sileſia.

891 A ſimilar reddiſh grey Slate Clay, with two leaf impreſſions, which are probably of the Aſpen-tree; from Rheinsdorf near Zwickau.

892 A ſimilar leaf impreſſion on Slate Clay, in which, however, the leaf appears to be broken off at the point; from the ſame place.

893 Another leaf impreſſion on Slate Clay; from the Saalkreis.

894 An impreſſion of the Fern plant (Phytolithus filicis Linn.) on Slate Clay; from Burg near Dresden.

B. *Mineral Coal itſelf.*

895 Maſſive pitch Coal in Slaty Coal; from Burg near Dreſden.

896 A ſlaty Coal very rich in Petrol; from Potschappel.

897 A much inferior mineral Coal, found upon and in Slate Clay; from Burg.

A. CHALK STRATA.

A. *Chalk itſelf.*

898 A piece of common white Chalk; from England.

899 A very beautiful chalky Echinite, of the variety called Egg-urchin; from Oxfordshire.

900 A chalky Echinite ſomewhat damaged, whoſe ſection approaches nearer to a circle than an ellipſe; from the ſame place.

901 A petrifaction of a Turkiſh Turban; from the Co. of Kent.

902 A Turkiſh Turban ſomewhat flatter, and the empty upper ſurface exactly in the centre; from the ſame place.

903 Another five-leaved figured Echinite (petrified death's head); from France.

Rem. The mouth and anus are ſtill very diſtinct.

904 A ſmall, nearly ſimilar, but alſo five leaved Echinite, only three-fourths of an inch long; from the Veroneſe.

905 A ſimilar Echinite indiſtinct and compreſſed, more circular than oval.

906 Thorny Echinite ſpines, with the chalk in which they were found; from the Co. of Kent.

907 Separate granular Verucæ of the Echinite ſhell; from the ſame place.

908 A Chalk petrifaction reſembling fruit, but which is

probably

probably only a disfigured Echinite prickle; from the ſame place.

909 Two very beautifully ſhaped petrified Heart Muſcles, nearly two and one-half inches long, in Chalk; from Wolfenbuttle.

910 Two Heart Muſcles ſmaller, more curved and abraded; from the ſame place.

B. *Flint.*

a. *Without reference to the Extraneous Bodies.*

911 Yellowiſh grey Flint; found as a pebble near Leipsic.

912 Light ſmoke grey Flint; from the ſame place.

913 Reddiſh brown Flint; from Poland.

914 A ſmoke and whitiſh grey veined Flint; from the ſame place.

915 An almoſt quadrangular Flint pebble; from Upper Lusatia.

916 Bulbous Flint; from the ſame place.

917 A ſimilar bulbous Flint pebble, which has almoſt the appearance of a petrified bone; from the Asser.

918 Flint with dendritic delineations; found in the vicinity of Leipsic.

919 A piece of Flint paſſing into Hornſtone thro' its fine ſplintery fracture; from Poland.

920 Another Flint poſſeſſing a little luſtre in addition to the ſplintery fracture, and therefore graduating into Quartz; from the Clay-pit near Leipsic.

b. *Petrifactions.*

a. a. *Stone Nuclei.*

921 An extraordinary conical Echinite.

922 A ſomewhat lower Echinite, on which the compartments and Verucæ ſhow that it belongs to the foregoing variety.

923 An Echinite a little disfigured, three inches broad, two long, and two and three-twelfth's high.

924 An Echinite proportionally lower, of the ſame ſort, two inches three-twelfth's long, one and two-thirds broad, and one three-fourths high.

925 Another Echinite a little flatter, two one-half inches long, one two-thirds broad and as high.

926 An Echinite on which are ſtill many traces of the deſtroyed ſhell.

927 A ſimilar lower Echinite, ſomewhat damaged at one ſide, but whoſe length muſt have exceeded three inches, its breadth two, and its height one and one-third; from Transylvania.

928 An Echinite of about the ſame ſize, but undoubtedly of the ſpecies called ſea crown; from Switzerland.

929 A very flat Echinite of this kind broken on one ſide, hence the inclination of the Lamellæ ſeems oblique; from England.

930 A ſimilar Echinite, which, as is evident, thro' natural injuries, has ſuffered damage on every ſide, which muſt have been however of very old date, as it is rounded off quite ſmooth.

931 A very high Echinite of the kind called ſea-ball; from Bibra in Hesse.

932 An Echinite abſolutely, as well as relatively lower.

933 A ſmall Echinite, about ten-twelfths of an inch high and one inch broad.

934 Four ſimilar Echinites of inferior relative height.

935 Two Echinites of ſtill leſs height.

936 A moderately ſmall Echinite, whoſe baſe is concave, and which ſeems to be intermediate between the former and this variety.

Rem. The laſt deſcribed Echinites have all a circular baſe.

937 A ſmall almoſt conical Echinite rubbed ſmooth, terminating underneath diſtinctly in four compartments; from Brussels.

938 The larger moiety of a ſimilar Echinite, ſplit parallel to its axis.

939 A doubly broken Echinite, with the planes of the fracture ſet nearly at right angles with each other.

940 An Echinite which had been moderately low, broken very much awry.

941 An Echinite broken off almoſt parallel to the baſe; from England.

942 Two fragments of Echinite ſhells, in which traces of the Verucæ and cells of the original are ſtill diſtinct.

943 Three moderately long and thick, though not more thorny, club-ſhaped Echinite ſpines; from England.

944 Similar fragments with the Verucæ ſtill very rough; from the ſame place.

945 Long ſlender Echinite ſpines; from Italy.

Rem. All the foregoing to which native places are not aſſigned, are from Poland,

946 A Flint with inhering delicate Echinite ſpines, and perhaps ſlender coral ſpikes; from Dikfield near Hamburg.

947 An Ammonite in Flint; from the Leipsic clay-pit,

948 A ſort of Petrified ſea ſponge; from Switzerland,

b. b. Rough Shells.

949 Flint, with ſtill rough inlaying Chamites; from England.

c. c. Impreſſions,

950 A Flint, with the impreſſion of a minute ſea ſtar; from Leipsic.

951 Flint with delineations and impreſſions of Echinite ſpines; from the Freienwald Sand-Mountain.

952 Flint, with the impreſſion of the ſmall ſhield of an Echinite; from Littau.

953 Flint, with ſmall round impreſſions which probably might have originated from Sea-urchin needles; from the ſame place.

954 A Flint with impreſſions of ſtreaked Chamites; from Poland.

955 Flint, with the impreſſion of a ſomewhat indiſtinct Conchite; from Jena.

956 Flint, with a delicate coating of an Eſcarite; from Poland.

5. *COMMON SALT STRATA.*

957 A large Lamellar piece of Common Salt; from Wielitzca in Poland.

6. *GYPSUM STRATA.*

958 A nearly reniform piece of compact Gypſum, traverſed by foliated ditto; from England.
959 Delicately fibrous Gypſum; from Thuringia.
960 Striated Gypſum; from the ſame place.
961 Foliated Gypſum with ſmall granular diſtinct concretions; from Eisleben.
962 Fine granular pale carnation red Gypſum, intermixed with greeniſh indurated Clay; from the ſame place.
963 Fine granular Gypſum, wherein the fine granular diſtinct concretions are ſo piled on one another, that the whole acquires a ſtriated appearance; from the ſame place.
964 Extremely fine granular grey Gypſum paſſing into compact, with adhering broad foliated Gypſum; from Ilmenau.
965 A moderately long rhomboidal fragment of broad foliated Gypſum; from Bottendorf.
966 A piece of broad foliated Gypſum with coarſe granular diſtinct concretions; from Upper Luſatia.

7. *IRON CLAY STRATA.*

A. *Iron Clay itſelf.*

a. Alone.

967 Dark clove brown Argillaceous Ironſtone; from Wehrau.

968 Yellowiſh brown Argillaceous Ironſtone; from Ukkermark.

b. With Petrifactions.

969 A Trochite-like Cochlite in Argillaceous Ironſtone; from Wehrau.
970 Small, rather elongated Mitilites in Argillaceous Ironſtone, with many impreſſions; from the ſame place.
971 Larger and more diſtinctly ſtreaked Mitilites, under the ſame circumſtances; from the ſame place.
972 Argillaceous Ironſtone with impreſſions of Strombites; from the ſame place.
273 Argillaceous Ironſtone with many very perfect impreſſions of theſe ſame Mitilites; from the ſame place.
974 Argillaceous Ironſtone with impreſſions of Mitilites, but ſo many heaped on and thro' each other, that they are thence become indiſtinct; from the ſame place.

B. *Loam.*

975 A Trochite-like Cochlite in bluiſh Loam; from the ſame place.
976 A Trochite-like Cochlit, with the coils nearer to each other; from the ſame place.
977 A Turbinite in ſmoke grey Loam; from the ſame place.
978 A Pectinite in ſimilar, but more ſandy Loam; from the ſame place.
979 Grey Loam with inlaying, partly ſtill rough, originals of the Pectunculites; from the ſame place.
980 A conſiderably Ironſhot Loam, with rough ſhells apparently of Chamites; from Ukkermark.
981 A large quantity of the rough ſhells of originals of the Mitilites, in Loam; from Wehrau.
982 A very Ironſhot Loam with impreſſions of ſhells; from the ſame place.

C. *Bituminous Shale.*

983 Tolerably regular, but rather thick ſlaty browniſh black Bituminous Shale; from the ſame place.

984 A rare variety of Bituminous Shale of an imperfectly conchoidal fracture, thence ſeeming to paſs into black Chalk; from Russia.

8. *CALAMINE STRATA.*

985 Yellowiſh grey Calamine with a moſt extraordinary Coral petrifaction, the original of which ſeems to be the Tubipora catenularia Linn: from Poland.

986 Maſſive Calamine with much inlaying Galena; from Olkutsch in Poland.

9. *MARTIAL PYRITES STRATA.*

987 Botryoidal Martial Pyrites with an Ammonite partly hid in it; from Gothland.

988 Cryſtallized Martial Pyrites, in which the largeſt coil of an Ammonite is diſtinctly to be ſeen; but the remainder is hidden; from Boll in Würtemberg.

989 A large piece of Martial Pyrites with many inlaying Chamites and rough Strombites, and alſo Turbinites which however are moſtly broken off to the one-half; from D'Ayen in Champagnè.

APPENDIX TO THE PRIMÆVAL AND MARIGENOUS ROCKS.

A. *For the natural hiſtory of Veins in the former.*

990 Large-grained Granite traverſed by a vein above an inch broad of fine-grained ditto; from Upper Luſatia.

991 A piece of Siliceous Schiſtus, traverſed quite thro' by two narrow ſlips of white Quartz parallel to each other, but a third interſects both, and only ſlightly alters its direction thereby; from the ſame place.

992 A piece of Argillite, traverſed by a ſlip of Siderocalcite which divides in one place, but in another is united with ſmaller ſlips under acute angles; from the Adam Heber at Schneeberg.

Rem. This ſpecimen ſhows moſt diſtinctly the true nature of veins, ſince the direction of this large ſlip interſects almoſt at right angles that which the ſlates of the Stone take.

B. *For the natural hiſtory of Veins in the Marigenous Rocks.*

993 Greyiſh black compact Limeſtone, with very numerous ſlips of Calcareous Spar, partly parallel and partly interſecting each other under right and acute angles.

994 A piece of Bituminous Marlite with a traverſing vein on which groupes of Martial Pyrites occur, wherein the direction of the vein viſibly interſects the ſlate at right angles, which gives great value to this ſpecimen; from Sangerhauſen in Mansfeld.

THIRD CLASS.

VOLCANIC ROCKS.

I. GENUINE VOLCANIC PRODUCTIONS.

1. *LAVA.*

995 A piece of rough Lava; from Vesuvius.

996 A Pumice-like brown Lava, with inlaid white Schörl Cryſtals ſo called; from the ſame place.

Rem. Theſe have the greateſt reſemblance to white Topaz Cryſtals,—tho' I do not venture to determine this with certainty.

2. *PUMICE.*

997 A piece of bright greyiſh white Pumice; from the Lipari Islands.

998 Yellowiſh grey Terras; from Andernach.

Rem. It is not yet ſatisfactorily determined under what predicament this comes, ſince hitherto, a partizan of the Volcanic Syſtem only has deſcribed this country.

II. PSEUDO VOLCANIC ROCKS.

999 Reddiſh, yellowiſh and blackiſh grey burned Clay, very full of blebs; from Bil in Bohemia.

1000 A piece of bluiſh grey Baſalt ſpotted with yellow, altered by a ſuperficial fire; from the Habichwald near Caſſel.

1001 A ſimilar piece inclining to reddiſh, but which is not near ſo much altered; from the ſame place.

1002 A very porous light Stone Coal; from Wettin in the Saalkreis.

FOURTH CLASS.

PRODUCTIONS OF ALLUVIAL MOUNTAINS.

1. *STREAM-WORK MINERALS.*

1003 Tin Stone in Quartz, broken from a boulder; from the Eibenstock Stream-works in the Erzgebirge.

1004 a Two Cryſtals of black Shörl; from the ſame place.

2. *LOWLAND FOSSILS.*

A. *Sand Land.*

1004 b Amber, with inlaying inſects in ſome places; from the ſea-coaſt of Pruſſia.

1005 Lowland Argillaceous Ironſtone; from Lower Lusatia.

1006 a The upper jaw bone with many of the grinders and one tuſk of a Polar Bear, (urſus maritimus Linnæi).

1006 b The ſame, without any teeth, therefore diſcoverable only by the agreement of the outline with the foregoing.

1007 A piece of the under jaw bone of a large animal of the Mammalia claſs with grinders and a Tuſk.

1008 A piece of a ſimilar jaw bone without the tuſk.

1009 A ſmall piece of a jaw bone of an animal of this ſort furniſhed at preſent only with the tuſk.

1010 Many ſeparate ſimilar tuſks and grinders, ſome of them ſtill with their roots.

Rem. All theſe ſpec. from 1006 b. to 1010 are from the Gaibenreuterhöhle in Bareuth.

1011 Small ſharp teeth probably of a young Lion; from the Baumans hole in the Hartz.

1012 A piece of a large jaw bone perhaps of an Elephant, which is very much altered; from the ſame place.

1013 A ſmaller ditto, in which the edges are actually changed to Opal; from Bakabanya in Lower Hungary.

1014 A piece of a petrified hip-bone of an animal of the Mammalia claſs; from the Baumans hole.

1015 A ſmall fragment of a ſimilar bone in which the interior ſtructure is ſtill diſtinct; from the ſame place.

1016 Many ſimilar fragments of bones connected together; from the ſame place.

1017 A ſimilar aſſemblage, in which likewiſe fragments of Hornſtone occur, connected by a Calcareous matter; from the ſame place.

1018 A ſimilar Conglomerate in which a large grinder is diſcoverable, together with veſtiges of Coal.

1019 A ſimilar mechanical union of animal bones and (apparently) ſmall ſharp teeth, which however are no longer eaſy to be known as they are much damaged; from the Scharzfeld hole in the Hartz.

1020 A crabſclaw in Sand merely agglutinated.

WOOD.

a. Foſſil Wood.

α. Alone conſidered.

1021 Reddiſh white Foſſil Wood perfectly fine and eaſily frangible; from Krunz near Bakabanya in Lower Hungary.

1022 Reddiſh grey, ſomewhat coarſer and ſlaty ditto; from Bohemia.

1023 Ditto, ſomewhat finer, in which the pith is very diſtinct; from the ſame place.

1024 A piece of Foſſil Wood, with veſtiges of the rind yet white, therefore evidently of the Birch tree; from the Lake Onega in Siberia.

1025 a A large fragment of a root of Foſſil Wood, in which the ſtructure is yet very diſtinct, although it is of conſiderable weight; from Kemniz in Saxony.

1025 b A ſimilar piece, which exteriorly ſtill perfectly retains the rind-like ſtructure, but interiorly paſſes compleatly into the following variety; from the ſame place.

1026 A piece of a branch, ten inches long and three inches thick; from Siberia.

1027 A piece of greyiſh white narrow cellular Foſſil Wood; from Bohemia.

1028 Smoke grey, delicate and curved fibrous Foſſil Wood, with knots ſtill viſible at the ſide; from Kemniz in Saxony.

1029 Very confuſedly interwoven fibrous ditto, of a red colour; from Presniz in Bohemia?

1030 Broad ſtriated ditto; from the Pit Frohlowa near Ohrenburg in Siberia.

1031 A piece of ditto of a very Quartzy appearance on the tranſverſe fracture, therefore approaching very nearly to the following variety; from Kemniz in Saxony.

1032 A piece of ditto of a nearly earthy appearance in the tranſverſe fracture; from the ſame place.

β. With regard to other intermixed parts.

1033 Foſſil Wood overlaid with an extremely delicate Quartz groupe; from Judenberg near Halle in the Saalkreis.

1034 A piece of ditto, overlaid on the outer ſide with diſtinguiſhable ſmall Quartz Cryſtals in quantity; from the ſame place.

1035 Foſſil Wood covered on two ſides with cellular and druſy Quartz; from Siberia.

1036 Ditto, on coarſe grained Sandſtone; from Altsattel in Bohemia.

1037 The ſame, on a brown very porphyritic Quartz Breccia; from Bohemia.

1038 A piece of ditto, penetrated with a large quantity of Iron Ochre.

b. Woodſtone.

b. Woodſtone.

a. Conſidered independantly.

1039 Dark browniſh black Woodſtone; from Falkenau in Bohemia

1040 A little lighter ditto, which proves extremely Quartzy; from Kemniz in Saxony.

1041 Honey yellow ditto; from Devon in Transylvania.

1042 Greyiſh black ſomewhat ſpotted with red ditto; ſrom Kemniz.

1043 Yellowiſh grey, ſmoke grey and browniſh red annulated Woodſtone; from the ſame place.

1044 Dark reddiſh brown, a little ſtreaked with whitiſh Woodſtone; from Bohemia.

1045 Yellowiſh grey ditto, ſomewhat traverſed by greyiſh white ſtreaks; from the ſame place.

1046 Dark blackiſh grey ditto, traverſed by rather curved narrow parallel ſtripes, which are moſt diſtinct where the piece is ſlightly poliſhed; from the ſame place.

1047 Yellowiſh and white alternating and narrow ſtriped Woodſtone; from Hungary.

Rem. It forms the true tranſition into Ligniform Opal.

1048 Black ditto, extremely delicately veined with reddiſh and white; from Kemniz.

1049 Blackiſh and yellowiſh brown ſhaded ditto; from Kemniz.

1050 Dark ſmoke and yellowiſh grey, a little red and white ſpotted Woodſtone; from the ſame place.

1051 Yellowiſh grey ditto, with numerous roundiſh red ſpots; from Bohemia.

1052 Greyiſh black ditto, ſprinkled with yellowiſh and reddiſh; from Kemniz, as are alſo the four following.

1053 Dark greyiſh black ditto, with reddiſh and white, black annulated, elliptical ſpots.

1054 Somewhat brighter blackiſh grey ditto, ſpotted in the ſame manner.

1055 Yellowiſh grey, ſimilarly indeed, though indiſtinctly and not ſo ſtrikingly beautiful ſpotted Woodſtone.

1056 Blackiſh and yellowiſh grey and alſo greyiſh white flamed (Geflamter) Woodſtone.

1057 Yellowiſh and ſmoke grey flamed, green ſpotted ditto; from Cobourg.

1058 Reddiſh and whitiſh grey ſhaded ditto, ſpotted with blackiſh grey; from Topliz in Bohemia.

1059 Pale peach bloom red and blackiſh as alſo Ochre yellow extremely delicately veined and ſprinkled very beautiful Woodſtone; from Kemniz in Saxony.

1060 Woodſtone with deep ſunk tetrahædral cells.

Rem. This paſſes into Flint.

β. *On account of the inlaying particles.*

1061 Woodſtone paſſing into Siliceous Schiſtus, with an adhering ſmall grained Quartz breccia; from Kemniz.

1062 Yellowiſh grey ditto, overlaid on two ſides by an entire pyramidal Quartz groupe; from Siberia.

1063 Black Woodſtone, with extremely thin ſuperficial compact Malachite; from the ſame place.

1064 The ſame, both diſſeminated and ſuperficial, with an adhering ſlip of Quartz; from the ſame place.

1065 Woodſtone intimately penetrated with Malachite and mixed with an extraordinary quantity of druſy Quartz.

c. *Bituminous Wood.*

1066 Light clove blown, delicately fibrous, Bituminous Wood; from Beichliz.

1067 A little darker, ſomewhat ſlaty ditto; from the ſame place.

1068 A ſtill darker, more combuſtible and ſlightly conchoidal, Bituminous Wood; from Upper Luſatia.

1069 Ditto, with actual inlaid jet; from the ſame place.

B. *Loamland.*

B. *Loamland.*

1070 Very poor Argillaceous Ironſtone; from the Hartz.

C. *Moorland.*

1071 Moderately firm Turf; from Holland.
1072 A Turf very poor in Petrol, but abounding in roots of vegetables; from Holſtein.

APPENDIX

TO THE

SYSTEMATIC AND GEOLOGICAL COLLECTIONS,

ILLUSTRATING THE PRODUCTION OF FOSSILS.

1. *MANNER OF THE PRODUCTION.*

In the moiſt way.

1 Lamellar Calcareous Sinter; from Annaberg in the Erzgebirge.
2 Calcareous Sediment; from Carlsbad.
3 A large piece of the ſo called Oſteocolla; from Tenſtadt near Langenſalz.
4 Stalactitic reniform Iron Ore; from Bohemia.
5 A coarſe-grained Breccia compoſed of particles of Quartz, Hornſtone, and Siliceous Schiſtus.

2. *ORIGIN OF THE PRODUCTION.*

a. By Juxtapoſition. (therefore evident.)

6 Greyiſh white compact Limeſtone, exteriorly having the appearance of a Flint, and interiorly actually intimately mixed with Siliceous Earth; from Poland, as alſo the four following.
7 A much harder, tho' ſtill effervescent, pale yellowiſh grey Limeſtone.
8 Yellowiſh grey Flint ſo mixed with the foregoing Limeſtone, that in ſome places, the one appears to

run into the other, but in others there is a marked ſeparation.

9 Dark yellowiſh grey Flint, with a rind of the ſame Limeſtone, which is alſo here and there internally diſſeminated.

10 Yellowiſh brown, ſlightly Calciferous Hornſtone, upon and in which druſy Quartz occurs.

b. By Decompoſition.

11 Sparry Iron Ore decompoſed almoſt to Iron Ochre, with a beautiful Calcareous Spar groupe; from Saalfeld.

3. *RELATIVE AGE OF THE PRODUCTION.*

A. *Contemporaneous.*

12 Yellow Blende, very thickly mixed with Galena and ſome Martial Pyrites; from Scharfenberg.

13 A mixture of Galena, Copper and Martial Pyrites in Quartz and Fluor Spar, with ſome Lamellar Baroſelenite; from Freudenstein near Freiberg.

Rem. Of this, at moſt the Martial Pyrites only can be of ſomewhat later origin.

14 A mixture of much Martial Pyrites, ſome brown Blende and Galena, and alſo a very little Quartz; from Freiberg.

B. *At different periods.*

15 A very large-grained Quartz Breccia in a very petroſiliceous baſis; from Upper Lusatia.

Rem. This maſs muſt have been neceſſarily yet ſoft where the Quartz already formed entered it.

16 Quartz with impreſſions of Fluor Spar; from the Isaac near Freiberg.

> *Rem.* That this Fluor Spar muſt have already poſſeſſed its cubic ſhape before the concretion of the Quartz, is from this incontrovertible.

17 A Quartz groupe upon which pyramids of Calcareous Spar occur, but the whole reſts on an Argillite mixed with Calcareous Spar and Martial Pyrites; from Boizza in Tranſylvania.

> *Rem.* Here the Quartz groupe is evidently younger than the Argillite mixed with Maſſive Calcareous Spar and Martial Pyrites, but the Pyramids of Calcareous Spar laying on the ſurface were formed lateſt of all.

18 Compact brown Iron Stone with an extremely thin coating of minute Botryoidal Calcedony, but intermixed with contemporary Quartz; from the vicinity of Schneeberg.

19 Pyramidally cryſtallized Quartz on Maſſive ditto, with much ſuperficial Mica; from Gera in the Erzgebirge.

20 Maſſive Quartz ſupporting pyramidally cryſtallized ditto, on this again a Siderocalcite groupe, in other places tabularly cryſtallized Baroſelenite, and on the ſurface of all this, Octohædral Copper Pyrites; from the Hartz.

21 Quartz with impreſſions on both ſides, with compact Baroſelenite, but on the upper part of this a Quartz groupe, and at the ſide inhering granular Galena; from the Isaac near Freiberg.

22 Baſalt with firmly intermixed Hornblende Cryſtals (Baſaltine,) alſo delicate druſy Zeolite which is of later origin; from Fulda.

23 A mixture conſiſting of a large quantity of Quartz and Martial Pyrites, as alſo brown Blende with cryſtallized red Ore of Mangancſe in druſy cavities, which is therefore of later formation; from Nagaya in Tranſylvania.

24 A piece of Quartz which is mixed with much Copper Pyrites, afterwards coated with druſy Quartz, Calcareous Spar and Copper Pyrites, as alſo tabular Baroſelenite, therefore all theſe latter are of later origin; from the Hartz.

C. *Uncertain.*

25 A Spheroid of Calcedony in ſome places rather decayed, internally coated with a beautiful Quartz groupe; from Oberſtein in the Palatinate.

> *Rem.* It appears to me that it cannot be inferred with certainty, that the Quartz in this ſpecimen is of later origin than the Calcedony.

4. *MINERALOGICAL DECEPTION.*

26 Amethyſt ſo artificially ſet into a piece of the root of a tree, that, on the one ſide it ſeems very firm and proper, and it is only on the other that the hand of the artiſt is diſcoverable.

END OF THE GEOLOGICAL COLLECTION.

IV.

GEOGRAPHICAL COLLECTION.

S.

C. [illegible].

97. A Specimen of Chalcedony in some places rather decayed, internally mixed with a beautiful Quartz [illegible], from [illegible] in the Palatinate.

[illegible] of later origin than the [illegible].

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98. Amethyst [illegible] in a large piece of the root of a tree, [illegible] on one side it seems very firm [illegible], which is [illegible] other than the [illegible] in [illegible].

IV.

GEOGRAPHICAL COLLECTION.

S.

I. THE AMERICAN HEMISPHERE.

A. *The Weſt Indies.*

1 Maſſive Galena with a little diſſeminated white Lead Ore in Quartz; from Jamaica.

B. *South America.*

2 Platina in grains; from Peru.

C. *North America.*

3 Graphite or Plumbago, mixed with ſome Ironſhot indurated Clay, and nearly of a ſlaty appearance; from the vicinity of Philadelphia.

4 A tablet of greeniſh grey Steatites; from North Carolina.

5 A poliſhed Labradore Felſpar, reflecting graſs green, blue and Pinchbeck brown; from the coast of this name.

6 Labradore Felſpar reflecting Lazuli blue and ſilvery white, interſected by a white ſtripe; from the ſame place.

II. ASIA.

A. *From the Iſlands.*

7 A large quantity of beautiful Rubies; from Ceylon.
8 Hyacinths, partly in grains and partly cryſtallized; from the ſame place.
9 Two Jargons; from the ſame place.
10 A yellowiſh grey Cat's-eye, which is poliſhed; from the ſame place.
11 A Ceylonian Moſs Agate.

B. *Arabia.*

12 A piece of a Carnelian pebble which is poliſhed.
13 A poliſhed Heliotropium, of a very dark mountain green colour.
14 A ſomewhat lighter Heliotropium.

C. *Perſia.*

15 A ſlab of fine-grained Limeſtone; from Tauris.

D. *China.*

16 A piece of Steatites, carved to repreſent an Idol.

E. *Ruſſian Aſia or Siberia.*

a. *Nertſchinsk*, belonging to the Taurjan Mountains, and perhaps a Branch of Caucaſus.

17 Chryſolite, which preſents itſelf in the branches of the Native Iron; found on the Eaſtern ſide of the Jeniſei, between the rivulets Ubei and Siſen.
18 A mountain green Priſmatic Beryll Cryſtal.
19 Part of a ſky blue Beryll Cryſtal.

20 Galena mixed with white Lead Ore and much brown Iron Ochre; from the Lurgikan Mine, by the Schikkastrom.

21 Indurated Iron Ochre with diſſeminated white Lead Ore; from the ſame place.

22 Maſſive Galena; from the Nowoserentin Mine.

23 Coarſe-grained Galena with diſſeminated white Lead Ore and much Iron Ochre.

24 Compact brown Ironſtone, which is mixed with much Quartz; from Bukatuinskaho near Nertschinsk.

b. Kolywan Government.

25 Native Silver, partly diſſeminated, partly Capillary, with finely diſſeminated Antimoniated Silver Ore in Hornſtone; from the Mine Andreas, 20 fathoms deep.

26 Coarſely diſſeminated ſmall and fine-grained Galena in Quartz, which is mixed with ſome Calcareous Spar; from the Schariwankir Mine, 50 Wersts from Kolywan.

27 Coarſe and fine-grained Galena, in foliated Baroſelenite, which is mixed very much with Iron Ochre; from the ſame place.

Rem. This tract belongs to the Altaischan Mountains.

c. Tobolski Government.

28 Very Ironſhot Micaceous Quartz, which is Auriferous; from the Beresof Gold Mines.

d. Ohrenburg Province, in the Uſi Government.

29 Yellowiſh white Calcareous Sinter; from Ohrenburg.

30 Compact brown Iron Stone, with a little overlaying Iron Ochre; from the Kamenskoi Works, on the river Iset.

31 Compact brown Iron Stone, which is intermediate between Tubuliform and Cellular; from the ſame place.

32 Amorphus compact brown Iron Stone, with a large

quantity of overlaying Iron Ochre; from the ſame place.

33 A mineral which is intermediate between compact brown, and Argillaceous Iron Stone; from the ſame place.

34 Auriferous cellular compact brown Iron Stone, with very much Iron Ochre; from the ſame place.

e. Permia Government.

a. Catharinenburg Province.

35 Partly Maſſive, partly cryſtallized compact brown Iron Stone, mixed with much Quartz; from the Beresof Mines, 15 Wersts from Catharinenburg.

36 The ſame, with intermixed Manganeſe and overlaying decayed Martial Pyrites; from the ſame place.

37 Cellular compact brown Iron Stone, upon Maſſive ditto; from the ſame place.

38 Compact brown Iron Stone, cryſtallized in perfect cubes of middling ſize penetrating one another; from the ſame place.

39 Brown Iron Stone cryſtallized in ſmall ſimilar cubes, with much adhering ſmall-grained Talc.

40 Compact brown Iron Stone, mixed with much Quartz, beſide the before mentioned Talc.

41 Maſſive brown Hæmatites mixed with cryſtallized compact brown Iron Stone, Quartz and fine-grained Talc.

Rem. All theſe ſpecimens are Auriferous, and are employed on that account.

42 Maſſive Martial Pyrites in Quartz, mixed with compact brown Iron Stone, which in ſome places has a cubic form.

43 Similar Martial Pyrites in Quartz, which is merely coated externally with compact brown Iron Stone.

44 Very ſmall cubic cryſtallized common Martial Pyrites, in Ironſhot Quartz.

45 The ſame cryſtallized in ſmall perfect cubes, mixed with compact brown Iron Stone and Quartz.

46 Cellular Hepatic Pyrites, with common Martial Pyrites in Ironſhot Quartz.

47 Small cellular, ſimilar Hepatic Pyrites, in the ſame compound.

48 Cellular Quartz with Maſſive ditto, which is mixed with compact brown Iron Stone.

β. From the Kungur Circle.

49 Petrified Wood, which is very druſy.

γ. Werbakur Diſtrict, 50 Werſts from Catharinenburg.

50 Maſſive compact Malachite, which paſſes into the delicately fibrous; from the Gumaschinsk Mine.

51 Somewhat druſy Malachite, mixed with much Iron Ochre; from the ſame place.

52 Cellular Malachite under the ſame circumſtances; from the ſame place.

δ. From the high chain of the Uralian Mountains of this Diſtrict.

53 Compact red Copper Ore mixed with fine foliated ditto, and with overlaying fibrous Malachite; from the Mine Frolowa, as alſo the following ſpecimens to No. 60.

54 Maſſive compact grey vitreous Copper Ore with ſome compact Malachite.

55 The ſame, with extremely fine diſſeminated Copper Pyrites.

56 The ſame, with minutely diſſeminated Copper Pyrites, and coated with much Iron Ochre.

57 Coarſely diſſeminated Copper Pyrites, in Ironſhot vitreous Copper Ore, which is coated with much compact Malachite.

58 Coarſely diſſeminated, very delicately fibrous Malachite, in Ironſhot compact grey vitreous Copper Ore.

59 Diſſeminated and thickly overlaying compact Malachite,

chite, upon a ſomewhat Ironſhot indurated Clay, which is perhaps a decompoſed Rockſtone.

60 The ſame, with much minutely diſſeminated vitreous Copper Ore, and finely diſſeminated Copper Pyrites in the ſame compound.

Rem. The vitreous Copper Ore is there called Fahlerz.

61 The ſame, with ſtill more Iron Ochre, and in ſome places alſo mixed with Quartz; from the Wasiliebskoi Mine.

ι. *From the Weſtern Marigenous Mountains of the Urals.*

62 Greeniſh grey Sandſtone, with ſome adhering petrified wood; from the Ingowski Mine in Permia.

63 The ſame, intimately mixed with very much compact Malachite; from the ſame place.

64 Similar fine-grained Sandſtone, with overlaying blue Copper Ore.

65 The ſame, with very much blue Copper Ore, and ſome Ironſhot Mountain Green.

Rem. It is found in this manner penetrating large trunks of trees.

66 The ſame ſort of Stone with extremely delicately cryſtallized blue Copper Ore, in other reſpects as the foregoing; from the ſame place.

67 The ſame, with very much Malachite penetrating the Sandſtone in Zone-like ſtripes; from the ſame place.

III. EUROPE.

I. *RUSSIAN DIVISION.*

a. *Government of Moſcow.*

68 Red Argillaceous Iron Stone mixed with a little brown; from the Occa.

69 Somewhat lighter Argillaceous Iron Stone inveſted with Iron Ochre; from the ſame place.

b. Novogorod.

70 Bituminous Wood approaching very nearly to Stone Coal; from the Walda Mountains of the river Mesta, near the town of Brovitsch.

Rem. It is there conſidered as genuine Stone Coal.

71 Maſſive Martial Pyrites, which is found in the Coal Strata there.

c. Government of Rigau.

72 Cubically cryſtallized Martial Pyrites; from a ſmall Island near Pazal, as are likewiſe the following ſpecimens to No. 87.
73 A Tubiporite in Flint.
74 An Eſcarite penetrated and inveſted by numerous calcareous particles, in Flint.
75 The ſame, in which ſmall Quartz Cryſtals have formed.
76 A boulder of fine-grained Limeſtone.
77 Aſtroites in Limeſtone, whoſe rays are no longer diſtinct.
78 A ſimilar large piece, with the rays moſtly abraded.
79 A Fungite in Limeſtone.
80 Another Fungite which is ſcarcely recognizable from the injuries it has ſuſtained.
81 A very large and net-like Eſcarite.
82 An Eſcarite of a ſmall net-like texture, in which however the original Coral is diſcoverable.
83 A rather ſmall net-like Eſcarite.
84 An Eſcarite whoſe cells are Parallelograms.
85 A very oblong-cellular, appearing almoſt pectinated, Eſcarite, in which the tranſverſe ſtreaks are nearly wanting.
86 An indiſtinct Coral petrifaction, which however ſeems to owe its origin to the Madrepore.
87 A ſtill more diſtinct, ſomewhat undulatingly curved Coralliolite.

d. Ingermanland Government.

88 A very beautiful large Labradore pebble reflecting graſs green.

89 Piſiform Argillaceous Iron Ore, approaching very much to the Lowland Argillaceous Iron Ore.

e. Government of Olonez.

a. a. Belonging to Petrowsawodsk.

90 Maſſive Copper Pyrites, with ſome blue Copper Ore, Malachite and Baroſelenite; from the Alexander Mine, 28 Wersts from Petrowsawodsk.

91 Maſſive Wolfram, upon a compound of Ironſhot Quartz, ſome Calcareous Spar and a little Malachite; ſrom the ſame place.

92 Trap, interſected by a ſlip of fibrous Hornblende, with Calcareous Spar; from the ſame place.

93 A ſomewhat greener Trap, in which the Felſpar is very diſtinct; from the ſame place.

94 A piece of Trap, in which beſide the intimately intermixed Hornblende, alſo viſible black grains of the ſame preſent themſelves.

95 A Trap more inclining to greyiſh, richer in Felſpar, with traverſing ſlips of Calcareous Spar; from the ſame place.

96 A Quartz groupe of priſmatic Cryſtals, moſtly of a middling ſize and acuminated in the uſual manner, with Calcareous Spar ſtrewed over the ſurface, upon a tolerably coarſe-grained Trap; from the ſame place.

97 Dark blackiſh grey Trap, in which the grains of the Felſpar are longer, and finely diſſeminated vitreous Copper Ore occurs; from the ſame place.

98 Large-grained Calcareous Spar, with a little overlaying Brown aſbeſtiform Actynolite, and very Ironſhot brown Blende; from the Mine Nadeschwa, 44 Wersts from Petrosawodsk.

99 Birch Wood, which is completely changed into cellular brown Iron Stone; from the Martial Spring which

Peter the Great drank of, 50 Werſts from Petrowſawodſk.

100 Small-grained yellowiſh grey Trap, in which tho' but caſually, a good deal of aſbeſtiform Actynolite ſeems to occur; from the Miſsalga Mine, 55 Werſts from Petrowſawodſk.

101 Very compact Trap, with inlaying magnetic Iron Stone; from the Mine Swiatnawolok on the Lake Pali, (Ruſsian *Pali oſero*), 100 Werſts from Petrowſawodſk.

102 Fine-grained Trap, wherein the Felſpar is diſtinguiſhable, with adhering Calcareous Spar; from the ſame place.

103 A ſlip of yellowiſh grey Quartz which very nearly approaches to Pitchſtone, in Trap; from the ſame place.

104 Maſſive Copper Pyrites, with ſome Calcareous Spar, in Quartz; from the Mine Lopskoi on the Segoſoro, 250 Werſts from Petrowſawodſk, and 35 from the village Pedanſk.

105 Coarſely diſſeminated Galena, in a ſomewhat Quartzy compact brown Iron Stone; from the ſame place.

106 Maſſive Galena, mixed with Martial Pyrites and Calcareous Spar, and with adhering Argillite; from the Mine Lebeſchei at that place.

107 Maſſive Copper Pyrites, with ſome adhering green Earth, or perhaps Chlorite, in Quartz; from the ſame place.

108 Greeniſh grey Quartz, with a tolerably light green Trap rich in Felſpar; from the ſame place.

109 Dark greeniſh black Trap, with very much inlaying greyiſh white very diſtinct Felſpar; from the ſame place.

b. b. From the Northern extremity of Lake Onega.

110 Superficial and diſſeminated blue Copper Ore, with Malachite in Quartz; from the Woidſk Gold Mine on the river Wig, 80 Werſts from the White Sea.

111 Maſſive ſpecular Iron Ore in Ironſhot Quartz; from the Mine Perbuba.

112 Maſſive Copper Pyrites in Ironſhot Quartz; from the ſame place.

113 Coarſely and minutely diſſeminated Copper Pyrites,

with a little compact Malachite, blue Copper Ore and Quartz; from the ſame place.

114 Superficial blue Copper Ore upon Argillite; from the ſame place.

115 Curved fibrous black Hornblende upon Mountain green Trap, wherein the Quartz is very intimately mixed with the Hornblende, and ſcarcely any Felſpar occurring in it.

f. Archangel Government.

116 Grey white-ſtreaked coarſe grained Limeſtone; from the vicinity of the White Sea.

2. *NORWAY.*

a. The Iſlands.

117 Yellowiſh grey Aſbeſtus which ſeems to graduate into indurated Talc; from Grönland.

118 A compound of red Quartz with an infinity of white ſpots of this ſort of Stone, which is there improperly called Porphyry, but is equally uſeful on account of its beauty; from the ſame place.

119 A Rhomboidal, quite tranſparent, duplicating Calcareous Spar fragment; from Iceland.

b. Norway itſelf.

a. a. Biſhoprick of Drontheim.

120 Maſſive Copper Pyrites in an Argillaceous Matrix; from the Mine Meldals-Werk.

121 Maſſive Copper Pyrites with a little Martial Pyrites and much Quartz, alſo with adhering, ſoft, curved ſlaty Argillite on both ſides.

122 Maſſive Copper Pyrites, with much brown Blende and ſome Quartz on both ſides, with walls of the foregoing Rockſtone; from Roeraas.

123 Somewhat variegatedly tarniſhed Copper Pyrites, with cryſtallized Martial Pyrites in Quartz, as alſo ſome Magnetic Iron Ore, with the foregoing Rockſtone adhering; from the ſame place.

b. b. *Biſhoprick of Chriſtianſand.*

124 Small-grained Maſſive Magnetic Iron Ore, mixed with much granular Limeſtone; from Ahrendal.

125 Maſſive, quite compact Magnetic Iron Ore, with a little diſſeminated Copper Pyrites and much Hornſtone, alſo a little Mica, brown Garnet and Calcareous Spar; from the ſame place.

126 Coarſely diſſeminated Magnetic Iron Stone, in a ſomewhat Argilliferous granular Limeſtone; from the ſame place.

127 Maſſive Copper Pyrites, in a compound of Hornblende and ſome Actynolite; from the ſame place.

128 Maſſive and Coarſely diſſeminated Galena, upon greyiſh black Argillite, which is mixed with brown Blende and interſected by a ſlip of Siderocalcite; from the ſame place.

129 A compound of very much blackiſh green Hornblende and Calcareous Spar; from the ſame place.

130 Moderately ſolid, ſomewhat Quartzy, thin ſlaty Hornblende Slate, with an adhering ſlip of Calcareous Spar, which is mixed with much olive green Actynolite, and ſtrewed with very ſmall cubes of Martial Pyrites.

b. b. *Biſhoprick of Chriſtiania.*

131 Maſſive brown Blende with much Calcareous Spar, in greeniſh Indurated Clay which ſeems to be a decompoſed Gneiſs; from Kongsberg.

132 Cobaltic Incruſtation upon Calcareous Spar, with adhering greyiſh black Argillite; from the ſame place.

133 Coarſely diſſeminated white Cobalt Ore in Quartz, which is mixed with ſome Calcareous Spar; from the ſame place.

134 Coarſely diſſeminated purple Copper Ore, with ſome

grey vitreous Copper Ore in Quartz; from Omdaalen.

135 Purple Copper Ore in Quartz, which is traverſed with much compact Malachite, and mixed with ſome Mica; from the ſame place.

136 Maſſive fine-grained Copper Pyrites; from Folldaalen.

d. d. *Without a particular determination of the part of the Continent of Norway from which they come.*

137 Browniſh red and greeniſh grey veined Serpentine.

138 The ſame, interſected by two broad ſlips of fine grained Limeſtone.

139 Yellowiſh grey compact Limeſtone.

140 Smoke grey, greyiſh white ſtreaked, fine grained Limeſtone.

141 Pale ſmoke grey, greyiſh white ſhaded, tolerably large-grained Limeſtone.

142 Smoke grey, yellowiſh and greyiſh white, browniſh red and green ſpotted and ſtreaked granular Limeſtone.

143 Dark greeniſh grey Hornblende Slate, which paſſes into Argillite.

144 Small-grained Talc, with inlaying Garnets.

3. *SWEDEN.*

A. *Weſt Gothland.*

145 Blackiſh green Trap, in which Hornblende and Quartz are very diſtinguiſhable by their fracture and colour, with very little and ſcarcely diſcernible Felſpar; from Kinnekulle.
Cronstedt, §. 267. a. Wallerius, Sp. 210.

B. *The Pariſh of Alsseda in Oeland, in the Gothland Diſtrict.*

146 Maſſive Auriferous Martial Pyrites in Quartz, with adhering Argillite; from Aedelfors.

147 Maſſive Magnetic Iron Ore, with ſome Quartz; from the ſame place.

148 Indurated dark yellowiſh grey Talc, which is very compact and ſolid, and would be remarkably uſeful for all kind of utenſils, upon the one ſide quite thinly overlaid with Quartz and Siliceous Schiſtus; from the ſame place.

C. *Weſtmanland.*

149 Maſſive, coarſe and ſmall-grained Galena in Steatites; from Salberg.

150 Small-grained Magnetic Iron Ore, which is mixed with ſome Quartz; from the ſame place.

151 Maſſive ſpecular Iron Ore in Quartz; from Norberg.

152 Wolfram which is mixed with ſome Mica; from the ſame place.

D. *Upland.*

153 Quite compact, ſpecular Magnetic Iron Ore which is mixed with ſome Aſbeſtus; from Dannemora.

154 Small grained Magnetic Iron Ore which is mixed with reddiſh brown Quartz; from the ſame place.

Rem. This Quartz is there erroneouſly taken for Jaſper.

E. *The province of Stora and the Copperberg in Dalecarlia.*

155 Maſſive, ſlightly glittering Copper Pyrites; from Fahlun.

156 Variegatedly tarniſhed glittering Copper Pyrites, with Quartz; from the ſame place.

157 Specular Iron Ore, in ſome places fine-grained and tarniſhed with the colour of tempered Steel, mixed with Magnetic Iron Ore and ſome Quartz; from the Mountain Gränge.

Rem. It is there uſually called Minera Pleiadum, and affords a cold ſhort Iron,

158 Maſſive, very beautiful braſs yellow Copper Pyrites, with ſome intermixed Brown Blende in Calcareous Spar; from Tunaberg.
159 Maſſive Copper Pyrites mixed with ſome indurated Clay; from Selstadt.
160 Magnetic Iron Ore; from Taberg.

F. *Lapland.*

161 Fine-grained Magnetic Iron Ore, in Quartz; from Jelliware.

4. *PRUSSIA.*

162 Wax yellow Amber.
163 Honey yellow Amber with an inſect incloſed in it.
164 Dark Hyacinth red Amber.

Rem. All three ſpecimens are from the Strand of the Baltic.

5. *POLAND.*

A. *Lithuania.*

a. *Indiſcriminately and almoſt in general.*

165 Yellowiſh brown, on one ſide black bordered Petrified Wood.
166 Dark yellowiſh grey ditto.
167 Greyiſh black and honey yellow ſtriped Petrified Wood.
168 Greyiſh black and yellowiſh brown ſtriped Petrified Wood.
169 Iſabella yellow and black ſtriped Foſſil Wood.
170 Dark greyiſh white Flint.
171 Pale yellowiſh grey Flint.
172 Pale ſmoke grey Flint.

Rem. Theſe three varieties approach very nearly to Hornſtone.

173 Flint of an intermediate colour between ſmoke grey and Wax yellow.
174 From the wax yellow ſomewhat inclining to grey, Flint.

175 Greeniſh grey Flint.

176 Flint of an intermediate colour between wine and wax yellow.

177 Somewhat darker ſimilar Flint.

178 Similarly coloured, in ſome places yellowiſh brown ſpotted Flint.

179 Flint, honey yellow at the edges.

180 A little darker honey yellow Flint, which is wine yellow in the centre.

181 Similar, here and there Ochre yellow ſpotted, Flint.

Rem. Theſe ſpecimens (No. 173—181) come extremely near to Calcedony.

182 From the honey yellow paſſing into ſmoke grey, Flint.

183 Yellowiſh brown Flint, which is ſomewhat blackiſh in the clefts.

184 Somewhat darker yellowiſh brown, here and there reddiſh ſpotted, Flint.

185 Similar, ſtill darker, partly grey ſpotted, partly ſprinkled with much red, Flint.

186 A Flint, which from the reddiſh brown, ſomewhat inclines to crimſon red.

187 The ſame of a ſomewhat higher colour.

188 Reddiſh brown and black ſpotted Flint.

189 Dark reddiſh brown, leek green and black ſpotted Flint.

190 Cochineal red Flint.

191 Browniſh black Flint.

192 Moderately dark black ditto.

193 From the dark black falling into blackiſh grey, Flint.

194 Very dark ſmoke grey ditto.

195 Somewhat lighter ſmoke grey ditto.

196 The ſame ſtill lighter, with yellowiſh brown edges.

197 From the ſmoke grey paſſing into yellowiſh grey, but at the borders bright yellowiſh and bluiſh grey fortification-wiſe annulated, Flint.

198 A very conical ſea apple petrified in Flint.

199 A ſimilar, ſomewhat lower in proportion to the breadth, ditto.

200 An Echinoſpatagite ſomewhat injured on one ſide.

201 a A ſtill more injured and not perfectly diſtinct, probably petrified Schield Urchin.

201 b Diſtinct Echinite ſpines in Flint.

201 c The ſame, very abundant, but decayed, therefore no longer perfectly diſtinguiſhable.

202 Flint with impreſſions of Trigonelles in which all the three ſides are ſtill viſible, though but faintly ſo, ſince they are but ſmall.

203 Flint with a ſomewhat indiſtinct impreſſion of a ſmall Mytilite.

204 A Flint petrifaction, alſo indeed indiſtinct, however it ſeems to be that of a Chamite.

205 A petrifaction in Flint, which is moſt probably a ſtreaked Chamite.

206 The impreſſion of a ſimilar petrifaction in Flint.

207 The impreſſion of a Pectunculite in Flint.

208 Indiſtinct, ſmall, petrified ſhells in Flint.

209 Small Aſtroit petrifactions in Flint, of a ſize decreaſing from that of a ſmall pea, to the ſize of a grain of ſand, occurring partly ſparingly, partly abundantly united together, but without the projecting rays, thence not recognizable without the following,

210 Similar Aſtroit petrifactions in which the projections, (indeed in ſome places a little of the ſtellular appearance itſelf, are ſtill to be diſcovered, of different ſizes, viz. of the ſize of a ſmall pea to that of a grain of Millet.

211 Eſcharite petrifactions in Flint.

212 Probably ſimilar coral petrifactions in Flint, in which however they are not quite indubitable, ſince one may alſo obſerve the before mentioned Aſtroits, but the whole from the great quantity of the petrifactions on the ſurface appears as if perforated by the Pholas.

213 Flint which is mixed with a little Calcedony.

214 A Flint mixed with much minute Botryoidal Calcedony of a yellowiſh brown colour.

215 Flint mixed with greeniſh grey Calcedony.

216 Flint mixed with a greyiſh white Quartz.

217 The ſame mixed with Quartz and Calcedony at the ſame time.

218 A Flint mixed with a groupe of minute pyramidal Quartz Cryſtals.

219 The ſame with very ſmall druſically accumulated Quartz Pyramids.

220 Flint mixed with a little Calcareous Spar.

221 The ſame with a tolerable quantity of ſmall grained Calcareous Spar, and beſides mixed with a little Calcedony.

222 Flint mixed with much Calcareous Spar.

223 Flint united with a large quantity of Calcareous Spar, which predominates in the compound.

224 A Flint mixed with ſmall druſy Quartz, a little Calcareous Spar and much Hornſtone.

225 A blackiſh grey Flint, with overlaying white Hornſtone appearing like Lime, but effervеſcing not at all with acids.

226 The ſame, in which the Hornſtone traverſes it in ſlips.

227 The ſame compound, but the Hornſtone is of a greyiſh white colour.

228 The ſame with ſtill darker Hornſtone, but which muſt be much more calcareous, ſince it effervеſces pretty ſtrongly.

229 Genuine grey compact Limeſtone mixed with a little black Flint.

> *Rem.* One part of the foregoing Limeſtone has an imperfect conchoidal, the other a coarſe-grained uneven fracture.

230 Bluiſh black Flint mixed with very much almoſt thick Lamellar fine ſplintery yellowiſh grey Hornſtone, which is quite firm in it, and does not effervеſce in the leaſt.

231 Small Calcareous Belemnites.

b. Near the Porphyry Mountains.

232 Greyiſh white moderately ſoft Limeſtone.

233 Yellowiſh grey ditto, in ſome places mixed with Marle.

234 An Echinite in which the rind is calcareous, but the interior, Flint.

235 Greyiſh white Quartz with ſome adhering Calcedony which is mixed with green Earth.

236 A reddiſh brown Amygdaloid, with elliptical, inlaying

globules,

globules, moſtly of wine yellow Calcareous Spar, but here and there alſo with Cryſolite.

Rem. This it is ſaid to lay above the Porphyritic Rock—but the alledged Porphyry itſelf is nothing but a mere Amygdaloid.

237 Greyiſh black ſlaty Clay which lays under the Porphyry and over Stone Coal.
238 Reddiſh brown Hornſtone.
239 Blackiſh grey Hornſtone which from the intimately intermixed argillaceous particles, ſeems to graduate into Argillite.

Rem. Theſe two laſt varieties of Hornſtone conſtitute the continuation of the Porphyry Mountains.

B. *Podolia.*

240 Bright white, reddiſh white ſtreaked Foſſil Wood.
241 Maſſive Galena with overlaying Brown Blende; from Cheniix in the Waiwodeship of Sandomir.
242 Coarſely diſſeminated Galena in Calamine; from Olkutsch in the Waiwodeship of Cracow.
243 Minutely diſſeminated Galena in very Ironſhot Calamine; from the ſame place.
244 Yellowiſh grey fine-grained Maſſive Calamine; from the ſame place.
245 Minute Botryoidal and cellular Calamine; from the ſame place.
246 Impure, partly as it appears ſomewhat ſandy, partly Ironſhot, Calamine; from the ſame place.
247 Coarſely diſſeminated native ſulphur in greyiſh white compact Limeſtone.
248 The ſame minutely diſſeminated, here and there with ſmall Calcareous Spar groupes, in the ſame ſort of ſtone.
249 Common Salt eſfloreſcing upon the foregoing Limeſtone.

6. *GALLICIA AND LODOMIRIA.*

250 Compact Gypſum mixed with indurated Clay, from

Wielizca in the Bochenska circle, as are all the ſpecimens to No. 260.

251 Fibrous Gypſum with adhering indurated Clay.

252 Maſſive foliated Gypſum with the ſame compound.

253 Yellowiſh grey Calcedony which is ſaid to be found there minutely botryoidal, in Gypſum.

Rem. Theſe four ſubſtances lay there above the proper ſtrata which follow here.

254 Greyiſh white, ſomewhat druſy, foliated Gypſum.

255 A Rhomboidal Cryſtal of broad foliated Gypſum, of middling ſize.

256 Ditto, cryſtallized in ſmall Priſms, penetrating each other.

257 Wine yellow Calcareous Spar conſiſting of columnar diſtinct concretions.

258 Reddiſh brown Hornſtone which is interſected by very numerous ſlips of Calcareous Spar.

259 A compact Gypſum ſomewhat adulterated with Clay, which, as it is not completely ſaturated with Vitriolic Acid, ſeems ſomewhat marlaceous and is there called Halda.

260 Bright and yellowiſh white foliated Rock Salt.

261 Compact brown Ironſtone in ſmall globular pebbles.

262 Black Manganeſian Ore.

7. *HUNGARY.*

A. *The Carpathian Mountains.*

263 Cryſtallized Gypſum with ſome Iron Ochre, upon greeniſh grey Foſſil Wood, which is not very much altered.

B *Schmolniz in the Kaſchau diſtrict.*

264 Cryſtallized Brown Blende, with Martial Pyrites, upon a Quartz groupe, upon which Calcareous Spar in capillary Cryſtals occur.

C. *Kremniz in the Barcher County. (Lower Hungary.)*

265 Diſſeminated Gold Ore, with ſome vitreous Silver Ore and Martial Pyrites in Quartz.
266 Maſſive and cryſtallized Auriferous Copper Pyrites, with ſome ſparry Iron Ore, in a Porphyry which conſiſts of a compact grey petroſiliceous baſis, with finely but abundantly diſſeminated particles of Felſpar.
267 Superficial compact Malachite upon Quartz.

D. *Herrngrund in the upper diſtrict of the Neuſohl County.*

268 Maſſive grey Copper Ore in Quartz.

Rem. It is there called Weiſgultig Ore.

269 Maſſive grey Copper Ore with diſſeminated Copper Pyrites in Quartz.

E. *Holter County.*

a. *Schemniz.*

270 Cellular Ironſhot Quartz which is ſaid to contain much Silver; from the Joſeph in the Hodritſch.
271 Capillary cryſtallized Calcareous Spar with minute ſparry Iron Ore Cryſtals, upon Ironſhot Quartz; from the three King's Gallery.
272 Finely diſſeminated Auriferous Copper Pyrites with argentiferous Galena, in Maſſive red Manganeſian Ore which is mixed with Quartz; from the Thereſia Shaft.
273 Sparry Iron Ore cryſtallized in acute, hollow Pyramids, upon Quartz, in which Galena, Brown Blende and Copper Pyrites are diſſeminated; from the ſame place.
274 Sparry Iron Ore cryſtallized in minute Rhombs, upon a Quartz groupe; from the ſame place.
275 Calcareous Spar cryſtallized in very ſmall, perfect cubes globularly accumulated, upon Quartz wherein much Brown Blende and ſome Copper Pyrites are diſſeminated,

diſſeminated, with adhering greeniſh ſomewhat decompoſed Rockſtone, which is probably Porphyry; from the ſame place.

276 Calcareous Spar cryſtallized in elongated Pyramids, moſtly ſcopiformly aggregated, in a compleat groupe, upon a compound of ſmoke grey Quartz with ſome Maſſive Calcareous Spar; from the ſame place.

277 Maſſive Copper Pyrites in Galena, upon Quartz wherein grey Copper Ore is diſſeminated, and which is alſo coated with Quartz Cryſtals; from the Pocher Gallery.

278 Maſſive Galena, mixed with ſome Brown Blende, and much Jaſper (Sinople) and with diſſeminated Copper Pyrites in Quartz; from the ſame place.

279 Coarſely diſſeminated Galena with Brown Blende in a compound of Jaſper and druſy Quartz, wherein a a little Copper Pyrites is diſſeminated; from the ſame place.

280 Cryſtallized ſparry Iron Ore with Calcareous Spar upon Quartz; from the ſame place.

281 Minute Calcareous Spar Pyramids accumulated in the larger cavities, but in which it is obvious that they originate from Quartz Pyramids by a ſecondary cryſtallization, upon Maſſive Quartz which is mixed with Brown Blende.

282 Calcareous Spar cryſtallized in very ſmall druſically accumulated Pyramids, upon Calcareous Sinter.

283 Cellular Quartz, with very ſmall Cryſtals of Martial Pyrites ſtrewed over the ſurface.

384 Quartz with cubic impreſſions mixed with indurated Clay.

285 Quartz cryſtallized in hexhædral Priſms of middling ſize upon Maſſive ditto, wherein a little Blende is intermixed with an adhering ſlaty Rockſtone; from the ſame place.

286 A groupe of hexhædral priſmatic Quartz Cryſtals terminated as uſual, upon Maſſive Quartz which is cellular underneath and ſomewhat Ironſhot; from the ſame place.

287 A groupe of priſmatic Quartz, acuminated by three alternating much larger planes, ſupporting a tabular Cryſtal of Baroſelenite; from the ſame place.

288 A Quartz groupe, with much overlaying ſomewhat decayed Calcareous Spar, upon Maſſive Quartz wherein ſome brown Blende and Copper Pyrites are diſſeminated; from the ſame place.

289 Porphyry which conſiſts of a Quartzy baſis of a reddiſh white colour, and inlaying greeniſh Hornſtone and red Felſpar particles, (Saxum Metalliferum Bornii) from the ſame place.

290 A very diſtinct Porphyry, of a dark grey petroſiliceous baſis, with greyiſh white Felſpar and Quartz grains, which are coarſely diſſeminated therein; from the ſame place.

Rem. It ſeems decompoſed on one ſide, and therefore to be the courſe of the vein.

291 Similar Porphyry, with a reddiſh brown baſis, much inlaying, moſtly decompoſed Felſpar, as alſo ſome Quartz; from the ſame place.

292 A ſort of Rock which conſtitutes the true tranſition from the foregoing Porphyry with a very dark baſis, into Trap.

Rem. This laſt is not from the Pocher Gallery, but from the vicinity of it.

b. From the other Counties.

293 Schiſtoſe Mica with much inlaying Garnets; from Pilzen.

294 Two ſmall priſmatic, quite tranſparent, colourleſs Rock Cryſtals; from Marmarosa.

295 Pearl grey Pitchſtone, with diſſeminated Opal and ſome decompoſed white Felſpar; from Mongatsch.

Rem. This ſpecimen forms therefore an extremely rare variety of Porphyry.

296 Small globular Calcareous Sinter; from Drachenholm.

F. *The Bannat.*

297 Maſſive vitreous Copper Ore mixed with purple Copper Ore; from Moldawa.

298 Cryſtallized blue Copper Ore, in a compound of Tile Copper Ore with a little compact Malachite; from the ſame place.

299 Maſſive Copper Pyrites, with much Tile Copper Ore, blue Copper Ore, alſo brown Iron Ochre and Lamellar Baroſelenite; from the ſame place.

G. *Transylvania.*

300 Maſſive and alſo cryſtallized Martial Pyrites; from Abrudbanya.

301 Diſſeminated Nagaya Gold Ore, with much brown Blende in Quartz, with overlaying red Manganeſian Ore and adhering decompoſed Argillite; from Nagaya.

302 Maſſive Galena with much brown Blende and grey Copper, Ore in a compound of Quartz and red Manganeſian Ore; from the ſame place.

303 Maſſive red Manganeſian Ore, with coarſely diſſeminated Realgar and grey Copper Ore, as alſo much white ditto intermixed, upon Quartz which contains much intermixed Martial Pyrites; from the ſame place.

304 Cellular Quartz with a Quartz groupe, alſo much intermixed red Manganeſian Ore and a little Martial Pyrites; from Offenbanya.

305 Maſſive Galena, with ſome black Blende in Quartz; from the Paulus at Kapnic.

306 A large piece of coarſe-grained brown Blende; from the ſame place.

307 Cryſtallized brown Blende which in ſome places paſſes into the yellow, with cryſtallized Calcareous Spar, upon a compound of much Quartz and ſome Martial Pyrites, with an adhering decompoſed ſlaty Rockſtone; from the ſame place.

308 Small reniform red Manganeſian Ore, upon a com-

pound of Quartz, a little Martial Pyrites and Galena, with an adhering decompoſed Argillitic Rockſtone; from the ſame place.

309 A very beautiful groupe of Octohædral tabularly cryſtallized Lamellar Baroſelenite, with the extreme planes bevilled.

8. *ITALY.*

A. *The Iſlands.*

a. Sicily.

310 Browniſh black ſlag-like Lava; from Etna.

311 Exteriorly reddiſh brown, ſlightly porous, moderately heavy Lava; from the ſame place.

312 Curved and very thick Lamellar, ſimilar Lava; from the ſame place.

b. The Lipari Isles.

313 A piece of greyiſh white, almoſt ſilvery white Pumice.

c. Elba.

314 A very beautiful groupe of pyramidally cryſtallized ſpecular Iron Ore, upon Maſſive ditto which is mixed with ſome Quartz.

315 Sparry Iron Ore which is mixed with a very large quantity of Iron Ochre.

316 Common Martial Pyrites cryſtallized in ſmall Dodecahædrons, confuſedly united.

317 A boulder of fine-grained ſpecular Iron Ore, in Quartz which is mixed with greeniſh indurated Clay.

B. *The Continent.*

a. Naples.

a. a. Veſuvius.

a. Independantly conſidered.

a. a. Foſſils merely ejected, whoſe origin is by no means to be attributed to the Volcano.

318 Greeniſh grey, ſlightly inclining to ſilvery white, Mica.

319 Brown cryſtallized Garnet, with ſome Mica and Quartz.

320 A ſmall groupe of Garnets which in ſome parts approach to the Hyacinth red colour, upon a compound of ſmall grained Limeſtone and Mica.

321 Opal, which occurs partly in blunt, partly in ſharp cornered pieces, in an entirely decompoſed grey Baſalt.

322 Somewhat decayed browniſh Baſalt, with an extraordinary large quantity of inlaying Opal and decompoſed Zeolite.

323 Reddiſh brown, ſomewhat decompoſed Baſalt, with very much inlaying cryſtallized Calcareous Spar, whereof the Cryſtals in ſome places are ſmall and very diſtinct hexhædral priſms with the uſual acumination.

324 Fine-grained ſomewhat druſy Gypſum.

ß. ß. Genuine Volcanic Productions.

325 Blackiſh brown very rough Lava.

Rem. This conſtitutes the uppermoſt layer of the Mountain according to the obſervations of Ferber.

326 From the black, inclining a little to bluiſh, vitreous Lava.

327 Slaggy Lava, very ſtrongly inclining to Lazuli blue, and tarniſhed greeniſh in the clefts.

β. *Monte Somma.*

328 Blackiſh grey Lava, with inlaying Cryſtals of white Garnet.
329 Very numerous ſmall roundiſh Calcareous Spar grains, in a reddiſh brown baſis.
330 Grey Lava, with numerous inlaying Hornblende, and mutilated white (probably) Garnet Cryſtals.
331 A compound of greeniſh grey indurated Clay, with very numerous inlaying Hornblende Cryſtals, as alſo with a white ſort of Stone which greatly reſembles the Saxon Schorlite. (See the Syſtematic Collection from No. 198—200.)
332 A porous reddiſh brown Foſſil, from which it is incontrovertible that Globules of Opal and probably Calcareous Spar grains have fallen out.
333 Browniſh red, porous, and alſo dull Lava.
334 A very full of blebs and cellular, dark Mortdorè red Lava, which is often deſcribed as Pumice.
335 Reddiſh brown porous Lava, whoſe blebs are all ſpherical, and probably were formerly filled with another Foſſil.
336 Smoke grey, tolerably compact Lava.

Rem. In thoſe ſpecimens from Monte Somma, they are certainly not all genuine Lavas which are included, on which account I have beſtowed ſo much attention in their deſcription.

γ. *Solfatara.*

337 Volcanic ſulphur in cellular Lava.
338 Very much decompoſed decayed reddiſh brown Lava, with whitiſh Argillaceous ſpots.
339 Somewhat heavier, ſimilar porous Lava, but leſs decompoſed.

b. The Southern part of the Papal territories.

340 Yellowiſh grey Sandſtone with inlaying Turbinites; from the vicinity of Rome.

Ferber, a. a. O. S. 232, Sandy Marle.

341 A Mitilite in the ſame Foſſil; from the ſame place.

c. Tuſcany.

342 Rather impure foliated Talc, which approaches to Potſtone; from Sienna.

343 Greyiſh white Steatites; from Impugnetta in the Florentine Government.

Ferber, S. 333.

344 A boulder of a Rockſtone, which on account of the very large quantity of Felſpar, holds an intermediate rank between Porphyry and Granite, but approaching nearer to the former; from the Gabbro Mountain.

Ferber, S. 334.

345 Greyiſh white Calcareous Spar; from the Florentine Appenines.

Ferber, S. 338.

346 A very beautiful ſlab of Florentine Ruin Marble.

d. The Dutchy of Maſſa.

347 White fine-grained Limeſtone; from Carrara.

348 A little more inclining to greyiſh, micaceous fine-grained Limeſtone; from the ſame place.

349 Extremely fine-grained bright white, very ſlightly purple red ſhaded Limeſtone, which furniſhes an exquiſite Marble; from Saravezza.

Ferber, S. 360.

e. Bolognian Government in the Papal territories.

350 Smoke grey Bolognian Stone.

f. Venetian territories.

a. a. Padua.

351 Grey Baſalt with abundant inlaying Hornblende; from the Euganean Mountains.
352 Compact black Baſalt; from the ſame place.
353 Baſalt with diſſeminated Chryſolite, but which is alſo very compact; from the ſame place.

b. b. Aggorth in the Government of Bellano.

354 Maſſive Copper Pyrites with diſſeminated brown Blende; from the vein of Copper Pyrites at that place.
355 Variegatedly tarniſhed Copper Pyrites mixed with ſome Quartz; from the ſame place.
356 Maſſive Copper Pyrites upon Ironſhot Quartz; from the ſame place.
357 Maſſive Copper Pyrites in Siderocalcite; from the ſame place.
358 Maſſive and coarſely diſſeminated Copper Pyrites, with ſome Martial Pyrites in Siderocalcite; from the ſame place.
359 A compound of Copper Pyrites, brown Blende and Sparry Iron Ore; from the ſame place.
360 A compound of Quartz, with much Tile Copper Ore, Copper Pyrites and ſome ſuperficial compact Malachite; from the ſame place.
361 Fine-grained Martial Pyrites; from the neighbourhood of Zoldon.

c. c. Tretto.

362 Superficial blue Copper Ore and compact Malachite upon Lamellar Baroſelenite.
363 Maſſive Galena in the ſame Foſſil.
364 Maſſive and coarſely diſſeminated Galena in Ironſhot Quartz which is mixed with Siderocalcite.

d. d. Iſchio near Vicenza.

365 Coarſe-grained Maſſive Galena, with a little intermixed brown Blende; from Montenaro.

366 Small-grained Galena mixed with a little Martial Pyrites and Quartz.

367 Fine-grained Galena mixed with ſome Calcareous Spar and Quartz.

368 Extremely fine-grained Galena with a little Copper Pyrites and adhering Ironſhot Quartz.

369 Flower-like foliated, almoſt ſtriated Galena, with a little intermixed compact Galena.

370 Curved foliated Galena, with very little diſſeminated Copper Pyrites and adhering Quartz.

371 Galena with overlaying grey earthy Lead Ore.

372 Galena which is mixed with much Copper Pyrites.

373 Green Actynolite which in ſome places is greeniſh white, in others greeniſh grey, with diſſeminated Galena and very little Blende.

374 Green Actynolite of a greeniſh white colour, mixed with Quartz, and in ſome parts coated with much Manganeſe.

375 Maſſive ſtriated grey Manganeſian Ore, with overlaying black ditto.

376 Coarſe and ſmall-grained, in ſome places Ironſhot Calcareous Spar.

377 A compound of greeniſh grey and greyiſh white Calcareous Spar with blackiſh green Serpentine and carnation red fine-grained Gypſum; from the vicinity of Verona.

Rem. It is there employed as Marble.

e. e. Bergamo in Bergamaſio.

378 Maſſive grey Copper Ore in Sparry Iron Ore.

g. Genoese Government.

379 A beautiful browniſh red, grey and white ſpotted and veined Marble; from Seſtri on the Genoeſe coaſt.

Rem. This is called by the Italians Marmo Fiorito.

380 Yellowiſh white, purple red ſpotted Marble; from the ſame place.

381 Greyiſh Lumacella; from Gassino near Turin.

h. Savoy.

382 A piece of a large Rock Cryſtal Priſm, with a little overlaying green Earth.

9. *SWITZERLAND.*

383 A very beautiful, perfectly tranſparent, colourleſs Rock Cryſtal, internally reflecting Irideſcent colours, the Priſm is four inches long and exceeds two inches in diameter.

384 Yellowiſh grey, white veined, fine-grained Limeſtone; from the Marble quarries between Aigle and Roſch, in the Canton of Berne.

385 Ochre yellow Marle, which is very ſolid, with numerous inlaying ſmall Turbinites; from the ſame place.

10. *GREAT BRITAIN.*

A. *Scotland.*

386 A piece of Plumbago with Ironſhot ſpots here and there; from Dumfries.

387 Acicularly cryſtallized, columnarly accumulated white Lead Ore; from the Lead Hills.

388 Red micaceous Iron Ore upon compact red Iron ſtone; from Carron.

Rem. In ſtrict propriety the Iſlands together with Ireland, but of which nothing is come to hand, ſhould precede Scotland.

B. *England.*

a. *Yorkſhire.*

389 Yellowiſh grey Marle with Mitilites.

b. *Lancaſhire.*

390 Compact red Ironſtone with a little micaceous Iron Ore and druſy Quartz.
391 Brown Jaſper which graduates into Hornſtone.
392 Lavender blue, brown ſpotted Lithomarga; from the ſame place.

Rem. It extremely reſembles the Terra Miraculoſa Saxoniæ.

c. *Derbyſhire.*

393 Cryſtallized Tinſtone in a groupe; from the Odin Mine.

Ferbers Oryktogr. S. 48.

394 Cryſtallized Brown Blende upon a Fluor Spar groupe, on which Calcareous Spar occurs underneath.
395 Cockscomb cryſtallized Martial Pyrites upon a compound of Galena and Fluor Spar.
396 Maſſive purple Copper Ore in Calcareous Spar.
397 Grey compact Limeſtone with numerous Entrochites and Trochites; from Moneyaſh.
398 Grey compact Limeſtone, with very numerous ſmall petrifactions and an adhering compound of druſy Fluor Spar, overlaying cryſtallized Galena and Calcareous Spar.
399 Yellowiſh grey ſomewhat ſandy Marle.
400 Striated grey Manganeſian Ore.
401 Bituminous Wood.

d. Flintſhire.

402 A very beautiful Pitchcoal which comes extremely near to Jet.

403 Variegatedly tarniſhed ſlaty Coal.

e. Cornwall.

404 Variegatedly tarniſhed, in ſome places botryoidal Copper Pyrites.

405 Variegatedly tarniſhed Copper Pyrites, with ſome Quartz and a few minute Cryſtals of the ſame.

406 Copper Pyrites cryſtallized in perfect trihædral pyramids of middling ſize, in priſmatic cryſtallized Quartz.

407 Superficial, in ſome places alſo diſſeminated Mountain Green, in indurated Clay which is mixed with much Calcareous Spar.

408 Maſſive Galena with overlaying cryſtallized white Lead Ore.

409 Vitreous Copper Ore with very ſmall Tin Ore Cryſtals and Martial Pyrites.

410 Small, quite coherent grains of Tinſtone with fragments of Quartz and Argillite.

411 Reniform Calcareous Sinter of a wine yellow colour.

412 Yellowiſh white Calcareous Sinter with an overlaying Calcareous Spar groupe.

413 Pyramidally cryſtallized Calcareous Spar, on the whole aggregated in branches.

f. Some whoſe places are undetermined.

414 Magnetic Specular Iron Ore in ſmall grains.

415 Reddiſh brown Argillite, with intermixed greeniſh ditto.

416 Pale Ochre yellow, very light Tripoli.

417 Hornſtone, which in ſome parts is quite decompoſed to Clay and from thence has acquired an earthy fracture.

418 A very fine ſomewhat talcoſe Steatites.

419 Grey compact Limeſtone with numerous inlaying petrifactions, particularly Ammonites.

420 Two Spheroids of compact grey Limeſtone.

421 Dark ſmoke and blackiſh grey Flint, with a ſtill inlaying Echinite.

Rem. Except ſeveral detached deſcriptions of Ferbers, Hamiltons, Burmans and ſome other Engliſhmen, very little valuable information has yet appeared on the Oryctography of Britain.

11. *FRANCE.*

422 Rhomboidally cryſtallized Thumerſtone; from Allemont in Dauphine.

423 A petrified ſtriated Terebratulite; from Champagne.

424 Very numerous ſmall cohering Porpites; from Lorraine.

425 Sparry Iron Ore, which is mixed with very much Iron Ochre and variegatedly tarniſhed brown Hæmatites; from the County of Foix in the Pyrenees.

12. *SPAIN.*

426 A piece of Plumbago.

427 Very beautiful black Chalk, which is ſaid to have been found there in a lead mine.

428 Browniſh red, very regularly cryſtallized Quartz; from Compoſtella.

429 A ſimilar Quartz Cryſtal, but of middling ſize, and clove brown; from the ſame place.

13. *PORTUGAL.*

430 Ochre yellow Amianthus.

14. *GERMANY.*

A. *The Schwartzwald Mountains.*

a. From Fürſtenberg.

431 Coarſely diſſeminated Native Silver with Arſenical Silver, in Calcareous Spar; from Wittichen in Fürſtenberg.

432 Specular white Cobalt Ore, upon Quartzy Argillite, traverſed by a ſlip of Siderocalcite; from the Sophia, at that place.

433 Minutely, but richly diſſeminated white Cobalt Ore, with ſome Siderocalcite; from the ſame place.

434 Lamellar Baroſelenite, with ſuperficial Cobaltic incruſtation and a little black earthy Cobalt Ore; from the ſame place.

435 Pyramidally cryſtallized Copper Pyrites with ſome Galena, Martial Pyrites and druſy Quartz.

Rem. This preſents itſelf in the ſame vein with the Native Silver.

b. Baden Durlach.

436 A extraordinarily beautiful Iſabella yellow compact Limeſtone with delicate dendritic delineations; from Efringen in Baden Durlach.

c. Pappenheim.

437 Yellowiſh grey compact Limeſtone with a very fine ſplintery fracture; from Pappenheim.

d. Würtemberg.

438 Browniſh, dark carnation red and white ſpotted, fortificationwiſe ſtreaked, Marble.

B *Auſtrian, Saltzburg, and Bavarian Mountains.*

a. Tyrol.

439 Hyacinth red Rock Salt mixed with ſome greeniſh grey indurated Clay; from Halle in Tyrol.

440 Small Tourmalines in Micaceous Talc; from the Valley of Ziller in Tyrol.

b. Carinthia.

441 Coarſely diſſeminated Cinnabar in Quartz; from Paternion in Carinthia.

442 a Compact brown Ironſtone with ſome druſy Quartz; from Huttenberg, there.

442 b Pure white coralliform Calcareous Sinter, with Rhomboidally cryſtallized Calcareous Spar upon ſmall grained ſparry Iron Ore; from the ſame place.

443 Copper Pyrites with fine grained Limeſtone in marlaceous compact ditto, wherein ſhells occur, conſtituting a Lumacella; from Bleiberg in Carinthia.

c. Idria.

444 Greyiſh black exteriorly ſtrong gliſtening Argillite; from the Idrian country, between Gratz and Carniola.

445 Similar Argillite of a lighter colour, with thickly overlaying Cinnabar; from the ſame place.

446 Greyiſh black indurated Clay, with thickly overlaying Cinnabar which graduates into Hepatic Mercurial Ore; from the ſame place.

447 Dark yellowiſh grey Argillite with ſuperficial Cinnabar; from the ſame place.

448 Maſſive and alſo ſuperficial Cinnabar, upon Argillite which in the recent fracture is ſmoke grey and is apparently mixed with ſome Steatites.

449 Blackiſh grey, fine-grained Sandſtone, with the ſo called Kugelerz; from the ſame place.

450 Extremely fine-grained Sandſtone, with traverſing ſlips of Cinnabar, which is mixed with Quartz, and with ſome adhering Argillite.

451 Diſſeminated, in ſome places cryſtallized, bright red Cinnabar in compact Limeſtone, through which numerous ſlips of Hornſtone traverſe.

452 Maſſive Cinnabar, with ſome Martial Pyrites, and with walls of Argillite on both ſides.

453 Very finely diſſeminated Cinnabar in an Ironſhot Marle.

454 Foliated greeniſh grey Steatites with a little ſuperficial Cinnabar.

d. Carniola.

455 Reddiſh brown fine-grained Limeſtone, with adhering indurated Clay of a greeniſh colour; from Carniola.

456 Mountain green, very fine Argillite; from the ſame place.

457 Porphyry with a greeniſh grey Petroſiliceous baſis, with inlaying, ſmall grained carnation red Felſpar; from the ſame place.

458 Dark brown Hornſtone Porphyry with inlaying reddiſh and white, ſmall grained Felſpar.

459 Reddiſh brown, more argillaceous Porphyry, with principally white, ſmall and fine-grained inlaying Felſpar; from the ſame place.

460 Light reddiſh brown Porphyry, with very much inlaying pale carnation red Felſpar and a little Hornblende.

461 A very beautiful carnation and browniſh red, as alſo pearl grey inclining to lavender blue, ſpotted Jaſp'-agate.

e. Stiria.

462 Magnetic Ironſtone in Quartz on which are ſome veſtiges of Mica; from Stiria.

463 Coralliform Calcareous Sinter (Eiſenbluthe); from Eiſenerz in Stiria.

464 Auriferous Copper Pyrites, with Galena in Quartz, to which Argillite adheres on both ſides; from Saltzburg.

465 Greeniſh white Quartz with ſome Steatites, and on both ſides with adhering Argillite; from the ſame place.

466 Reddiſh and yellowiſh brown ſhaded and ſtreaked, compact Limeſtone, which is employed as Marble; from Saltzburg.

C. *The*

C. *The Fichtel Mountains in Franconia, the Upper Palatinate, and the Upper part of Thuringia extending to the Saal.*

a. The Upper Palatinate.

467 Yellowiſh and greyiſh white ſmall grained Limeſtone; from Pfaffenhofen.

b. Bareuth.

468 Yellowiſh grey, interſected with very delicate black veins, red and white ſparingly ſpotted, Marble; from Scherdlas.

469 Yellowiſh grey, reddiſh and greeniſh ſpotted and veined compact Limeſtone; from Hof.

470 Smoke and blackiſh grey ſpotted compact Limeſtone with inlaying Martial Pyrites; from Löhma near Bernstein.

471 Smoke grey and greyiſh white, as alſo reddiſh brown ſpotted, Breccia-like figured compact Limeſtone; from Bernstein.

c. From Mainungen.

472 Blackiſh grey, ſolid, fine-grained Sandſtone.

473 Very Bituminous Marle, there called Coal aſhes.

474 A ſmall-grained, very Porphyroidal Sandſtone, which is compoſed of a Petroſiliceous cement with greeniſh Argillite and red Felſpar grains, and is properly grey Wacke.

Rem. This Stratum is ſeven fathoms thick.

475 Yellowiſh grey Argillite which is found under the foregoing.

476 Black compact Limeſtone ſpotted with argillaceous particles, there called black Horngebürge, or Hornſtone.

477 A genuine dark Clove brown Hornſtone, which lays from 6 to 10 inches thick uniformly above the Coal Strata.

478 A greeniſh indurated Clay (there called Fuller's earth) which is found mixed with the Hornſtone.

479 A black moderately ſoft, and very bituminous Hornſtone, with ſuperficial variegatedly tarniſhed Stone Coal, which alſo is occaſionally found over the Coal at that place.

480 Browniſh black Slate Coal, which forms a Stratum from an half to two fathoms thick.

481 Greeniſh grey indurated Clay or Loam.

482 Yellowiſh grey Hornſtone, here and there ſomewhat Ironſhot, and lays two feet thick.

483 Yellowiſh white indurated Clay, which is employed as Fuller's earth at Coburg.

484 A moderately argillaceous Hornſtone.

485 A ſlightly impure Slate Coal.

486 An impure, exteriorly reddiſh, internally greyiſh Marle, there called Sandſtone.

487 Smoke grey, ſlightly micaceous Hornſtone, which is two feet in thickneſs, and is here and there penetrated with a ſort of Loam.

488 Greyiſh black Marle, there called Horn, and is ten inches thick.

489 Greeniſh grey and white, ſomewhat greaſy, indurated Clay, with a few inlaying cubes of Martial Pyrites, but is called white Loam.

490 Browniſh black Slate Coal, from one and an half to three fathoms thick.

Rem. This ſeems better than No. 480.

491 Maſſive Martial Pyrites in an impure Stone Coal.

492 White Loam, which ſeems marlaceous, with fragments of grey Hornſtone.

493 A decompoſed Hornſtone which is there called indurated Fuller's earth. This and the foregoing layer are not ſo regular as the others.

494 Light yellowiſh grey Hornſtone which conſtitutes the laying ſide of the Stratum, is moderately ſolid and is alſo mixed with Siderocalcite.

Rem. It ſomewhat exceeds three fathoms in thickneſs.

495 A very coarſe Sandſtone which more reſembles a Breccia, as it conſiſts of very numerous elliptical pebbles of greeniſh grey Hornſtone, grains of Felſpar and Mica, with a Quartzy cement.

Rem. Its thickneſs is not yet explored.

496 Somewhat decayed Hepatic Pyrites with diſſeminated Stone Coal.

497 Bituminous Wood which ſeems to graduate into Jet.

498 Light yellowiſh grey ſomewhat Ironſhot compact Limeſtone.

499 Yellowiſh grey inclining to reddiſh, fine Hornſtone, which ſerves the purpoſe of a Whetſtone very well.

500 A Foſſil large Grinder of an Elephant.

501 A piece of an Ammonite, in Marle.

d. Schwarzburg.

502 Greeniſh grey Argillite; from Schwarzburg.

503 Copper Pyrites, which is mixed with very much Magnetic Iron Pyrites, ſome Galena and alſo Blende, is alſo ſaid to be auriferous; from the Golden Valley in Schwarzburg.

e. Henneberg.

504 A Rockſtone which conſiſts of much Hornblende and Quartz mixed, and is probably only a variety of Trap; from the Ehrenberg beſide Ilmenau.

Vide Voigt. Catal. No. 4.

505 Coarſe-grained Granite; from the ſame place.

Voigt. Cat. No. 1.

506 A very beautiful ſolid reddiſh brown Poryhyry, with a Petrosiliceous baſis and ſmall-grained diſſeminated Felſpar and alſo Quartz; from Tragberg near Ilmenau.

Voigt. No. 5.

507 Grey Manganeſian Ore, with ſome overlaying black ditto and with adhering Quartz; from the ſame place, where it forms a vein in Porphyry.

508 Blackiſh grey Porphyry, with a ſimilar baſis to No. 506, and alſo a ſimilar admixture; from Aſcherofen near Ilmenau.

Voigt. No. 6.

509 Decompoſed Granite; from the Freibach near Ilmenau.

Voigt. No. 3.

510 Foliated Gypſum intimately mixed with Limeſtone; from the Johannes-shaft near Ilmenau.

Voigt. No. 23.

511 Grey granularly foliated Gypſum, to which broad foliated ditto adheres, in ſuch a manner that the direction of the Folia of the one, is at right angles with that of the other; from the ſame place.

512 Slate Clay, with impreſſions of Plants; from Tammerberg beſide Ilmenau.

Voigt. No. 41.

513 A piece of ſlaty Coal; from the ſame place.

Voigt. No. 39.

514 Yellowiſh grey, ſmall-grained Sandſtone; from the ſame place.

Rem. It lays under and over the Coal. Voigt. No. 40.

515 A Calcedony Spheroid, wherein Amethyſt has cryſtallized, which is again coated with Calcedony; from Schneekopf, between Stuhl and Ilmenau.

516 Yellowiſh grey compact Limeſtone, with numerous inlaying Mitilites; from the Suhla diſtrict.

517 The ſame, of a paler colour, wherein alſo very numerous Pectunculites occur; from the ſame place.

518 Somewhat decompoſed Porphyry; from the Grauwinkel in the Thuringerwald.

Voigt. No. 7.

f. Dutchy of Eiſenach.

519 Iſabella yellow Calcareous Marle; from the Pit beſide Spicher, near Eiſenach.

Voigt. No. 36.

520 Very fine-grained greyiſh white Gypſum; from the Quarries beſide Kuttelsthal.

Voigt. No. 20.

521 Bituminous Marlite, with very little diſſeminated Copper Pyrites; from Kupfersuhl beſide Eiſenach.

Voigt. No. 18.

522 Somewhat Bituminous fine-grained Sandſtone; from the ſame place.

Voigt. No. 17.

523 A coarſe reddiſh brown Quartz Breccia, (or the ſo named Todteliegende; *Semiprotolite*); under the ſtratum of Argillite, beſide Stadtefeld in Eiſenach.

524 Bituminous Wood; from Kaltennordheim in Eiſenach.

Voigt. No. 60.

525 Greeniſh grey, ſomewhat Ironſhot in the clefts, Schiſtoſe Mica; from Ringberg near Ruhla.

Voigt. No. 10.

526 Greyiſh black Baſalt, with much inlaying Chryſolite; from the Stopfelskuppe in Hutschoſe, beſide Eiſenach.

Voigt. No. 42.

g. *Thuringia, (in a more extenſive ſignification,) with the Circle of the Saal, and the Dutchy of Weimar.*

527 Calcareous Tufa, or the ſo named Beinbruch; from Tennstadt near Langensaltz.

Voigt. No. 57.

528 Granite penetrated with Calcareous particles; from Kiphaüser.

529 Yellowiſh grey fine ſplintery Limeſtone; from Artern, as are alſo all the following ſpecimens to No. 540.

530 The ſame, of a pale ſmoke grey colour and extremely fine ſplintery.

531 The ſame, but more marlaceous, with Muſcle petrifactions.

532 The ſame, with impreſſions of Mitilites which had formerly lain therein.

533 Ochre yellow, dark red ſpotted Marle, mixed with a little Gypſum.

534 The ſame, which is viſibly penetrated with very numerous Iron particles, therefore alſo much heavier.

535 Curved, but parallel fibrous Bituminous Wood.

536 Liver brown earthy Bituminous Wood.

537 Hepatic Pyrites, with overlaying particles of Bituminous Wood.

538 Amorphous ſimilar Martial Pyrites, wherein here and there there ſeem to be petrifactions but very indiſtinct.

539 Browniſh red fine-grained, ſomewhat Micaceous Sandſtone.

540 The ſame, upon yellowiſh grey Sandſtone, upon which again in ſucceſſion, the former, only mixed with greeniſh grey Clay, adheres.

541 Greyiſh white broad foliated Gypſum; from Bottendorf.

Voigt. No. 22.

542 Smoke grey, ſlightly Argilliferous Compact Limeſtone (called Zechstein); from the ſame place.

Voigt. No. 19.

543 Dark yellowiſh grey Swineſtone; from the ſame place.

Voigt. No. 27.

544 Extremely fine-grained, almoſt compact ſtreaked Gypſum; from the ſame place.

Rem. This lays under the former.

545 Very large-grained Quartz Breccia, in which among others, an oviform pebble larger than a hen's egg occurs; from the ſame place.

Voigt. No. 15.

546 Reddiſh brown Porphyry, wherein much Quartz and decompoſed Felſpar, as alſo a little Mica occur; from Giebichenstein beſide Halle in the Circle of Saal.

547 Greeniſh grey Marlaceous compact Limeſtone, with inlaying Mitilites, Chamites and Pectunculites; from the ſame place.

548 Reniform Native Argill; from the Garden belonging to the Royal School beſide Halle.

549 Yellowiſh grey compact Gypſum, with traverſing foliated ditto of a ſmoke grey colour; from Durnberg.

550 Coarſe-grained yellowiſh grey Sandſtone; from Weissenfels.

551 The ſame, but much more ſpongy; from the ſame place.

552 Yellowiſh grey compact Limeſtone; from Naumburg.

553 Pale ſmoke grey, extremely fine ſplintery compact Limeſtone; from the ſame place.

554 Somewhat Ironſhot compact Limeſtone, with numerous inlaying Pectunculites; from the ſame place.

555 Compact Limeſtone, with very numerous inlaying Mitilites; from the ſame place.

556 Yellowiſh grey Marle, with a very indiſtinct petrifaction, whoſe original probably belonged to the claſs of Fiſh; from the ſame place.

557 Similar, only ſomewhat more Argilliferous Marle; from the ſame place.

558 Blue Martial Earth; from Ekkardsberg.

559 A piece of coarſe-grained Granite; from the country between Weimar and Erfúrth.

Voigt. No. 2.

560 A piece of oviform Limeſtone; from the Weimar precincts.

Voigt. No. 39.

561 A Conglomerate of different pebbles, principally of Hornſtone and Porphyry, united by a Calcareous matter; from the bank of the Ilm, oppoſite to Weimar.

Voigt. No. 59.

562 Calcareous Tufa; from Weimar.

563 Foliated yellowiſh grey Gypſum; from Ettersberg beſide Weimar.

Voigt. No. 24.

564 Small ſplintery, grey compact Limeſtone, mixed with a little fine-grained ditto; (called Glaſs-ſtone) from the ſame place.

Voigt. No. 33.

565 Somewhat Ironſhot, ſimilar compact Limeſtone, with very numerous Pectunculites; from the ſame place.

Voigt. No. 32.

566 Yellowiſh grey, moderately ſoft, compact Limeſtone; from the ſame place.

Voigt. No. 30.

567 The ſame, but finer and ſomewhat darker; from the ſame place.

Voigt. No. 31.

568 Dark yellowiſh grey, ſomewhat inclining to bluiſh, compact Limeſtone, with much Flint; from Jena.

569 Greeniſh grey indurated Clay; from Weimar.

Voigt. No. 37.

570 White fibrous Gypſum; from the ſame place.

Voigt. No. 25.

571 Compact yellowiſh grey Limeſtone, which in ſome parts properly bears the name of Tufstein; from Belvidere near Weimar.

Voigt. No. 56.

572 Red curved fibrous Gypſum; from the Trufelslöchern, between Weimar and Jena.

Voigt. No. 26.

D. *Bohemian and Moravian Mountains.*

a. *Upper Lusatian Mountains.*

573 Large-grained Granite; from Hennersdorf.

b. *Leutmeriz Circle.*

574 Maſſive and cryſtallized Tinſtone in Quartz; from Zinwald.

575 Four Tin groupes, ſo called; from the ſame place.

c. *Saaz Circle.*

576 Coarſe-grained oviform Limeſtone; from Carlsbad.

577 Small-grained Limeſtone; from the ſame place.

578 Fibrous Calcareous Sinter, or the (here) ſo named Sprudelstein; from the ſame place.

579 A piece of Schiſtoſe Porphyry with much inlaying Felſpar; from Closter Oſeg near Carlsbad.

d. Berau

d. Berau Circle.

580 Maſſive Tinſtone in Quartz, which is mixed with Mica.

581 Maſſive Siderocalcite in Calcareous Spar; from Ginez.

582 A greeniſh grey inclining to yellowiſh, cavernous Foſſil which very nearly approaches to grey Wacke, and moſt probably formerly contained Calcareous Spar globules, as the veſtiges ſtill exiſting in the pores indicate.

583 Maſſive Galena with cryſtallized white Lead Ore, in Ironſhot Quartz; from Przibram.

584 Diſſeminated Cinnabar in brown Hæmatites; from Horzowiz.

e. Prachimer Circle.

585 Diſſeminated Copper Pyrites, with Martial Pyrites and ſome grey Copper Ore in Quartz; from Frauenberg.

Rem. The grey Copper Ore bears here the uſual dignified name of *Weisgultigerz.*

f. Moravia.

586 Superficial Native Silver and vitreous Silver Ore, with diſſeminated Galena and Maſſive Quartz in decompoſed Argillite; from Ratiborschüz.

587 Maſſive dark red Silver Ore, in druſy Quartz with ſome Calcareous Spar and much yellow Blende intermixed; from the ſame place.

588 Maſſive Galena, with ſome brown Blende and grey Copper Ore mixed; from the ſame place.

E. *Silesia with the flat country and the Margraviate of Brandenburg.*

a. Brieg Circle.

589 Maſſive Galena, mixed here and there with ſome Iron Ochre; from Tarnowiz.

590 Coarſely diſſeminated Galena in Calamine; from the ſame place.

b. Strehliz Circle of the Principality of Brieg.

591 Two to three inch long Priſmatic Rock Cryſtals, called Klingſtones; from Rummelsberg.

c. Nimptsch Circle.

592 Dark apple green Chryſopraſium; from Kosemüz.

593 Bluiſh grey Semi Opal; from the ſame place.

594 A beautiful piece of pearl grey Calcedony, whoſe colour by degrees runs into greeniſh, and by the alteration of the other characters ſeems to make a tranſition into Chryſopraſium; from the ſame place.

d. Principality of Schweidniz.

595 An aggregate of very much black Hornblende, ſome Quartz and Felſpar; from Zotenberg.

e. Principality of Münſterberg.

596 Druſy Quartz, with inlaying greeniſh indurated Clay; from Schreibershau beſide Reichenſtadt.

597 Greyiſh white, very druſy, reddiſh veined Quartz; from the ſame place.

598 A piece of Sienite; from the ſame neighbourhood.

f. Hirschberg

f. Hirschberg Circle.

599 Greeniſh white, ſmoke grey and carnation red ſhaded and ſpotted, fine-grained Limeſtone, which is there employed as Marble.

F. *The Marigenous Mountains of Pomerania, Mecklenburg, Schleswig,* &c.

600 Fine-grained yellowiſh grey and brown ſtreaked Sandſtone; from Bremen.

G. *The Hartz Mountains, Flat Country on this ſide the Elbe, Magdeburg, Marigenous Mountains of Mansfeld to the Saal.*

a. Upper Hartz.

601 Maſſive argentiferous Galena with Calcareous Spar and adhering Argillite; from the Dorothea at Clausthal.

Rem. The Cwt, is ſaid to contain 2¼ ounces of Silver.

602 Maſſive grey Copper Ore in Quartz upon Argillite; from Andreasberg.

603 Zeolite cryſtallized in ſmall hexhædral Priſms, upon decayed Martial Pyrites; from the Abendröthe at Andreasberg.

604 A groupe of ſimilar, much larger Priſms interſecting one another in the form of a croſs, of Zeolite, upon Quartz; from Andreasberg.

605 Calcareous Spar cryſtallized in perfect hexhædral Priſms, upon a compound of Siderocalcite and Galena in Quartz; from the ſame place.

Rem. It preſents itſelf in the ſame vein with the former.

606 A groupe of double hexhædral pyramidal Calcareous Spar Cryſtals, upon Quartz; from the ſame place.

607 Grey Wacke; from the Stone Quarry behind the Zellbach near Clausthal.

Voigt. No. 14.

608 A greyiſh black Argillite in which the tranſition from the grey Wacke is evident; from the ſame place.

609 Acicularly cryſtallized white Lead Ore which is columnarly aggregated, upon Quartz with adhering Argillite; from Bleifeld at Zellerfeld.

610 Quite delicately cryſtallized white Lead Ore, with overlaying fibrous Malachite and adhering Quartz; from the ſame place.

611 Grey earthy Lead Ore in fine-grained grey Wacke; from the ſame place.

612 A piece of ſmall-grained Granite; from the Summit of the Brokkens.

613 Maſſive Copper Pyrites; from Lautenthal.

614 Very compact grey Schiſtoſe Porphyry, with extremely fine-grained Felſpar; from Blankenburg.

615 Greyiſh white, blackiſh grey veined, granular Limeſtone; from Blankenburg.

616 Reddiſh brown greyiſh white, carnation red and greeniſh grey ſpotted and ſtreaked, granular Limeſtone; from the ſame place.

617 Dark yellowiſh grey, greyiſh white ſpotted, blackiſh veined, fine-grained Limeſtone; from Elbingerode.

b. Marigenous Mountains on the Saal.

618 Moderately coarſe-grained Roeſtone; from Bernburg.

619 Fine-grained ditto; from Seeburg near Eisleben.

c. County of Mansfeld.

620 Extremely fine-grained greyiſh white, dark grey ſtreaked Gypſum; from Eisleben.

621 Yellowiſh grey foliated Gypſum, of ſmall granular diſtinct concretions; from the ſame place.

622 Very pale yellowiſh white broad foliated Gypſum; from the ſame place.

623 Greyiſh black bituminous Marlite with diſſeminated Copper Pyrites and a Fiſh impreſſion; from the ſame place.

624 Narrow ſtriated carnation red Gypſum; from Wimmelburg beſide Eisleben.

625 Reddiſh brown, ſomewhat ſlaty and very much mixed with Mica, fine-grained Sandſtone; from the ſame place.

Rem. This conſtitutes the *Todteliegende* throughout the whole extent of the Mansfeld Country.

d. *Vorhartz.*

626 Maſſive Plumoſe Antimonial Ore, with an adhering compound of Calcareous Spar, Quartz and grey Copper Ore; from Stollberg.

627 Small perfectly tranſparent priſmatic Rock Cryſtals; from Strasberg.

628 Pale graſs green, paſſing into greeniſh white Fluor Spar; from the ſame place.

629 Maſſive grey Manganeſian Ore in Lamellar Baroſelenite; from Ilefeld.

630 Petrified Sea Stars upon yellowiſh grey fine-grained Sandſtone; from Hainberg beſide Göttingen,

H. *The Heſſian Mountains with the Archbiſhopric of Fulda, and the Vogelsgebirge, as far as the Main.*

a. *The Marigenous Mountains of Lower Heſſe between the Sauerland, Upper Heſſe and Fulda.*

631 Octohædrally cryſtallized grey vitreous Copper Ore, in ſome parts alſo the ſame forming the ſubſtance of petrifactions, in Argillite; from Frankenberg.

632 A bluiſh grey Baſalt altered in an extraordinary manner by the burning of Pit Coal; from the Habichtswald near Caſsel.

633 The ſame, which however evidently has ſuffered alteration in a much inferior degree; from the ſame place.

634 The ſame of a reddiſh brown colour and traverſed with minute pores; from Carlsberg near Caſsel.

635 Reddiſh grey, ſomewhat Ironſhot Sandſtone with Dendritæ; from Lahnberg near Marburg.

636 Baſalt with minutely diſſeminated Chryſolite; from Frauenberg near Marburg.

b. Vogelsgebirge.

637 Blackiſh grey Baſalt with coarſe-grained inlaying reddiſh brown Chryſolite and minutely diſſeminated Calcareous Spar; from Amöneburg in the Territories of Mentz.

Rem. This is the extremity of the Vogelſgebirge towards Heſſe.

638 Blackiſh grey Baſalt of ſmall granular diſtinct concretions and a moderate quantity of diſſeminated Chryſolite; from Ulrichstein.

639 Greyiſh black ſomewhat thick ſlaty Baſalt, with a little diſſeminated Chryſolite; from Taufstein.

640 Compact blackiſh grey Baſalt with much diſſeminated Hornblende and Chryſolite; from Bielstein.

641 Reddiſh brown very porous Amygdaloid, in ſome parts of which the Lithomarga in the Pores is ſtill viſible, but which however probably originates from the decompoſition of another Foſſil; from Eichel Sachsen.

c. Upper Heſſe.

642 Greyiſh white, here and there ſomewhat Ironſhot Sandſtone; from Berka on the Ilm.

Voigts. Catal. No. 28.

643 The ſame a little coarſer and of a reddiſh brown colour; from the ſame place.

Voigt. No. 29.

d. Archbiſhopric of Fulda.

644 Blackiſh grey Baſalt with much diſſeminated Calcareous Spar and extremely fine Chryſolite; from Herssfeld.

Voigt. No. 49.

645 Moderately thick ſlaty Schiſtoſe Porphyry with a little inlaying Felſpar; from the Pferdskopf on the Euben.

Voigt. No. 55.

646 Very porous Baſalt of a blackiſh grey colour, with inlaying red Garnets; from the ſame place.

Voigt. No. 48.

647 Bluiſh grey Baſalt, with cryſtallized Calcareous Spar; from the ſame place.

Voigt. No. 46.

648 Reddiſh grey decayed Baſalt with intermingled Hornblende Cryſtals; from the ſame place.
649 Greyiſh white decayed Schiſtoſe Porphyry; from the Summit of the Pferdskopf.
650 Reddiſh brown Baſalt, with numerous Hornblende Cryſtals and in ſome places with large Pores which are here and there lined with Calcedony, but in other places filled with Chryſolite; from the Source of the Fulda.

Voigt. No. 45.

651 A little ſofter and darker Baſalt wherein more Zeolite and leſs Calcedony, but beſides alſo, Hornblende and Chryſolite occur; from the ſame place.

Voigt. No. 47.

e. The Mountains on this ſide the Main.

652 A ſmooth Gryphite in grey compact Limeſtone; from Biber.
653 Impreſſions of ſimilar petrifactions in the ſame Foſſil; from the ſame place.
654 Bluiſh grey Baſalt, with intermixed ſulphur yellow particles which are probably a ſomewhat decompoſed ſparry Iron Ore, of which reddiſh brown traces may ſtill be detected; from Kleinsteinheim beſide Hanau.

655 The ſame of a perfectly ſimilar appearance; from Bokkenheim beſide Frankford on the Main.

656 Smoke grey Baſalt traverſed by very ſmall Pores, in which only the veſtiges of the Foſſil which was formerly imbedded in it are now to be diſcovered; from the ſame place.

Voigt. No. 43.

657 The ſame, much more Ironſhot in the rift, and here and there traverſed with moderately large blebs, in which veſtiges of the Foſſil formerly imbedded in it may yet be detected; from the ſame place.

Voigt. No. 44.

658 Liver brown, very beautiful Semi Opal, part of a pebble; from Aveſtein beſide Frankford.

Voigt. No. 50.

659 Yellowiſh grey Baſalt, traverſed with ſmall Pores, which are ſpotted ochre yellow; from Sandhof.

660 The ſame of a dark grey colour with larger Pores, but with an adhering reddiſh decayed Stone; from the ſame place.

661 Browniſh red Baſalt, traverſed with Pores partly conical, wherein are extremely delicate Zeolite and Calcareous Spar Cryſtals; from the ſame place.

662 Grey Baſalt, with the ſo named botryoidal Rock Cryſtal; from the ſame place.

Rem. The latter is very famous under the name of the Lava Glaſs and Mullers Glaſs. (Hyalite of Kirwan.)

I. *The Naſſavian Rhine Mountains, Weſterwald, and Weſtphalia, as alſo Cologne with Treves beyond the Rhine.*

663 Sparry Iron Ore cryſtallized in Rhombs of middling ſize, with ſome overlaying micaceous Iron Ore; from Naſſau Siegen.

K. *The Mountains beyond the Main, the Palatinate and the Dutchy of Deux Ponts, with Treves on the Moſelle and on this ſide the Rhine.*

a. The Palatinate.

664 Diſſeminated and ſuperficial high red Cinnabar, upon tolerably decayed Argillite; from Reichenbach.

665 Native Mercury with bright red Cinnabar, upon and in Quartz.

666 Greeniſh grey Novaculite; from Hüftenberg.

b. Deux Ponts.

667 Maſſive dark and bright red Cinnabar in Ironſhot Hornſtone; from Stahlberg.

668 Native Mercury with Maſſive Cinnabar in Calcareous Spar which is mixed with Hornſtone; from the ſame place.

669 Superficial Cinnabar, in grey, tolerably compact, Sandſtone wherein Stone Coal occurs intermixed; from Pezberg.

670 Diſſeminated bright red Cinnabar in yellowiſh and bluiſh grey indurated Clay, which, as may be obſerved on one ſide, is decompoſed Argillite, and there called Lettengebirge; from the ſame place.

671 A very large piece of dark red Cinnabar, with ſome adhering indurated Clay; from the Elizabeth Mine, at the Brukkenberg.

672 A ſlip of Maſſive dark red Cinnabar, upon which is a little ſuperficial compact Malachite, with adhering ſomewhat Ironſhot Argillite on both ſides; from the ſame place.

673 Maſſive bright red Cinnabar with ſome dark ditto, in compact brown Ironſtone which is mixed with Calcareous Spar.

674 Superficial high red Cinnabar upon a compound of Martial Pyrites with compact brown Ironſtone, ſome fine ſplintery Quartz and a little Siderocalcite; from the ſame place.

675 Maſſive and ſuperficial common and bright red Cinnabar, with adhering Hornſtone on both ſides; from the ſame place.

676 Native Mercury in a ſomewhat argilliferous and alſo Ironſhot Hornſtone.

677 Native Mercury with much Cinnabar in Ironſhot Hornſtone; from the Roſebuſh.

678 Narrow ſlips of Maſſive dark red Cinnabar, with ſuperficial bright red ditto, in yellowiſh grey argillaceous Stone, perhaps decayed Argillite; from the Charles Theodore at Moschellandsberg.

679 The ſame, in veins, with extremely ſlight veſtiges of Native Almagama, upon the ſame ſort of Stone, which on the outer ſide is very Steatitical; from the ſame place.

c. Treves, this ſide the Rhine.

680 Smoke grey, ſomewhat porous Baſalt; from Niederwenig near Andernach on the Rhine.

Voigt. No. 51.

681 Dark yellowiſh grey Baſalt with very numerous inlaying Hornblende Cryſtals, and here and there with dots of Zeolite; from the ſame place.

682 Reddiſh grey Terras, in which grains of Argillite water borne together, are to be obſerved; from Pleith beſide Andernach.

Voigt. No. 52.

683 Roundiſh fragments of Pumice, which are ſaid to lay therein; from the ſame place.

Voigt. No. 53.

L. *Auſtrian and United Netherlands.*

684 Partly yellowiſh, partly ſomewhat grey compact Limeſtone, with very numerous Chamites, Diſzites and Pectunculites; from Bruſſels in Brabant.

685 Light yellowiſh grey compact Limeſtone, with inlaying Petrified Heartmuſcles; from Mäſtricht.

686 A large Net-like Eſcharite in compact Limeſtone; from Gröningen.

M. *The*

M. *The Saxon Mineral and Upper Luſatian Mountains.*

a. The Neuſtadt Circle with Saalfeld.

Charpentiers Mineral: Geog. of Saxony.

S. 331—348.

687 Greyiſh black very beautiful Roof Slate; from Lehsten near Saalfeld.

Voigt. No. 11.

688 Maſſive grey Copper Ore, with a little Baroſelenite in ſparry Iron Ore; from Saalfeld,

689 Maſſive vitreous Copper Ore with Ironſhot Lamellar Baroſelenite; from the ſame place.

690 Cobaltic germinations with black earthy Cobalt in grey Copper Ore; from the ſame place.

691 Maſſive Copper Pyrites in Ironſhot Tile Copper Ore; from the Pelican and Christian Ernst at Grosskamsdorf.

692 Compact Malachite, upon and in Ironſhot Copper Pyrites; from the ſame place.

693 A compound of Tile Copper Ore and Ironſhot Copper Pyrites, with a little fibrous Malachite; from the ſame place.

694 Ironſhot compact Limeſtone.

695 Maſſive grey Copper Ore in Siderocalcite, with adhering Ironſhot Argillite; from the ſame place.

Rem. The Cwt of pure grey Copper Ore is ſaid to contain twenty marks of Silver, which however appears to be overrated.

696 Calcareous Spar cryſtallized in elongated double hexhædral Pyramids which are again terminated by three planes, in a ſparry Iron Ore mixed with much Iron Ochre.

697 Calcareous Spar cryſtallized in ſlender acicular Pyramids, upon Siderocalcite which is mixed with much Iron Ochre; from the ſame place.

698 Maſſive Copper Pyrites in a compound of bluiſh grey

indurated Marle (Wakkengebirge) with Lamellar Baroſelenite and Siderocalcite; from the ſame place.

699 Coarſely diſſeminated Copper Pyrites in Tile Copper Ore, which is mixed with much Iron Ochre; from the ſame place.

700 Maſſive Tile Copper Ore in Iron Ochre upon which is ſome ſuperficial compact Malachite; from the ſame place.

701 Superficial Mountain green and Cobaltic incruſtation upon Limeſtone; from the ſame place.

702 Martial Pyrites cryſtallized in perfect ſmall Octohædrons, with variegatedly tarniſhed Copper Pyrites, intermixed with Calcareous Spar and alſo ſparry Iron Ore and with adhering Siderocalcite; from the ſame place.

703 Diſſeminated and ſuperficial blue Copper Ore, upon and in Lamellar Baroſelenite, which in ſome parts is Ironſhot, in others containing Manganeſe.

704 Maſſive Copper Pyrites, with ſome grey Copper Ore in Lamellar Baroſelenite.

705 Maſſive pavonated Copper Pyrites in Siderocalcite, with adhering, marlaceous, decompoſed Argillite.

706 Coarſely diſſeminated compact red Copper Ore, with fibrous Malachite in very Ironſhot ſparry Iron Ore.

707 Maſſive Copper Pyrites in Siderocalcite with adhering Calcareous Sandſtone.

708 Maſſive Pitch Coal with Copper Pyrites, in Siderocalcite.

Rem. This is a great rarity.

709 Maſſive compact Mountain green in Ironſhot Lamellar Baroſelenite.

710 Cryſtallized micaceous Iron Ore, minute botryoidally accumulated and mixed with much Iron Ochre.

711 Superficial blue Copper Ore with ſome Mountain green and Cobaltic Incruſtation, upon extremely fine-grained ſparry Iron Ore.

712 Coarſe-grained ſparry Iron Ore with intermingled Copper Pyrites and Lamellar Baroſelenite, and alſo overlaying fibrous Malachite.

713 Small-grained ſparry Iron Ore mixed with much fibrous Malachite and Iron Ochre.

Rem. It is very porous, and the Pores have a very great reſemblance to thoſe in the grey Fuldean Baſalts, which are deſcribed as Lavas principally on that account, they ſeem however to derive little certainty from this.

714 Sparry Iron Ore cryſtallized in perfect Lenſes, with intermingled grey Manganeſian Ore.

715 A groupe of ſmall and very ſmall perfectly Rhomboidal ſimilar Cryſtals.

b. The Voigtland Circle.

Charpentier. S. 305—319.

716 Topaz Rock, with inlaying Maſſive and ſome cryſtallized Topaz; from Schnekkenstein near Auerbach.

717 Very numerous wine yellow priſmatic Topaz Cryſtals; from the ſame place.

c. The proper Erzgebirge Circle.

a. a. Vicinity of Eisbenstock.

Charpentier, S. 267—277.

718 Compact red Ironſtone.

719 The ſame, with reniform red Hæmatites.

720 Large reniform red Hæmatites.

721 Maſſive and cryſtallized Actynolite in Quartz, which is mixed with a little green Earth.

722 A piece of a large pebble of black Schörl with a little Quartz; from the Eibenstock Stream Works.

723 A Quartz pebble with intermixed narrow ſtriated black Schörl; from the ſame place.

b. b. Schneeberg Country,

Charpentier, S. 278—292 and 245—248.

a. With exact determination of place.

724 Compact red Ironſtone; from the Spizleithe.

725 The ſame, in ſome places very Petroſiliceous; from the ſame place.

726 Compact brown Ironſtone coated here and there with a little Hæmatites.

727 Minute botryoidal compact brown Ironſtone with ad-

hering exceeding fine ſplintery Quartz; from the ſame place.

728 Brown, inclining to greeniſh, Garnet, mixed with ſome Ironſhot indurated Clay; from the ſame place.

729 Green Garnet with fine intermixed compact brown Ironſtone; from the ſame place.

730 The ſame, of fine-grained diſtinct concretions.

731 Reddiſh brown Jaſper, whoſe fracture verges on the ſplintery.

732 A ſlip of Maſſive Garnet with adhering exceeding fine Hornſlate.

733 Maſſive Garnet in traverſing ſlips, with ſmall veins of brown Blende and Native Biſmuth, between Argillite; from the ſame place.

734 The ſame, mixed with more brown Blende and alſo with a little Calcareous Spar; from the ſame place.

735 Blackiſh grey and greeniſh grey Argillite and Hornblende Slate, wherein the latter is the darkeſt, and is here difficult to be recognized on account of its great compactneſs; from the ſame place.

736 A ſlip of grey Actynolite, which occurs in ſtriped Argillite graduating into Siliceous Schiſtus; from the ſame place.

737 Coarſe-grained Granite; from Haſenberg.

738 The ſame, with adhering Quartz interſected by a narrow vein of Jaſper; from the ſame place.

739 Moderately dark greeniſh grey Argillite; from Kargwald.

740 Compact brown Ironſtone, with overlaying Hæmatites in Quartz.

741 Reniform Hæmatites upon compact brown Ironſtone; from the ſame place.

742 Minute reniform brown Hæmatites with the ſame admixture; from the ſame place.

743 Veiny Lithomarga in ſimilar compact brown Ironſtone; from the ſame place.

744 Ironſhot Quartz with pyramidal impreſſions; from the ſame place.

745 A groupe of hexhædral pyramidal cryſtallized Quartz, whereon druſy Martial Pyrites occurs, upon Maſſive Quartz; from Brünlasberg.

746 Bluiſh grey fine ſlaty Argillite; from the Adam Heber.

747 A very Quartzy thick ſlaty Argillite; from the ſame place.

748 Yellowiſh grey, mountain green ſtriped Argillite; from the ſame place.

749 Similar Argillite with much intermixed Siderocalcite; from the ſame place.

750 Maſſive and alſo veiny Siderocalcite, in dark greeniſh grey Argillite; from the ſame place.

751 The ſame, in mountain green Argillite; from the ſame place.

752 Moderately ſolid grey Argillite, ſomewhat Ironſhot in the rifts, and traverſed with veins of Siderocalcite; from the ſame place.

753 Extremely fine-grained Calcareous Spar, upon mountain green Argillite; from the ſame place.

754 Dark grey Argillite, with ſuperficial, ſomewhat druſy, Martial Pyrites and intermixed Siderocalcite; from the ſame place.

755 Cryſtallized and alſo veiny red Silver Ore in Calcareous Spar, with adhering grey Quartz; from the ſame place.

756 Finely diſſeminated Martial Pyrites in Calcareous Spar which is mixed with Siderocalcite and Quartz, with adhering Argillite; from the ſame place.

757 Minutely diſſeminated Copper Pyrites in Siderocalcite, with adhering Argillite; from the ſame place.

758 Pale roſe red Siderocalcite with ſome Quartz, upon Argillite; from the ſame place.

759 Maſſive ſtriated Pyrites, in a compound of Quartz and Siderocalcite, upon which Calcareous Spar has cryſtallized; from the ſame place.

760 Diſſeminated and cryſtallized ſtriated Pyrites, upon pale greeniſh grey Quartz which is mixed with much Calcareous Spar; from the ſame place.

761 Plumiformly ſtreaked Native Biſmuth in Quartz which is mixed with ſome Calcareous Spar; from the ſame place.

762 Biſmuth Ochre upon Quartz, with adhering Argillite; from the ſame place.

763 Small-grained Siderocalcite mixed with Maſſive Cal-

careous Spar and with adhering Argillite; from the ſame place.

764 A groupe of compreſſed thin trihædral pyramidal Calcareous Spar Cryſtals, upon a compound of Quartz and Maſſive Calcareous Spar; from the ſame place.

765 A very beautiful groupe of thick ſimilar pyramidal Cryſtals of middling ſize, in druſy Quartz; from the ſame place.

766 Calcareous Spar cryſtallized in pyramidally accumulated Rhombs, upon Quartz which is mixed with the ſame Maſſive; from the ſame place.

767 Calcareous Spar cryſtallized in ſmall hexhædral priſms with the uſual acuminations, the Cryſtals aggregated into long pyramids, upon Quartz which is mixed with Argillite; from the ſame place.

768 A ſlip of fine-grained Granite with extremely little Mica, between Gneiſs which in ſome places approaches to Schiſtoſe Hornblende; from the ſame place.

769 A groupe of perfect lenticular Siderocalcite Cryſtals, upon druſy Quartz; from the White Hart at Schneeberg.

770 Maſſive and coarſely diſſeminated, dark and light red Silver Ore, with a little ſtriated Pyrites in Calcareous Spar.

771 Rhomboidal cryſtallized Siderocalcite, upon Maſſive, in which hepatic Pyrites is diſſeminated, with adhering Argillite; from the Prieſt and Levite.

772 Maſſive coarſe-grained Siderocalcite mixed with druſy Quartz; from the ſame place.

773 Small-grained Granite; from the deep Maxemler Gallery.

774 A very Ironſhot Quartzy and Micaceous Argillite.

775 Yellowiſh grey very fine Hornſtone.

776 A very beautiful reddiſh and yellowiſh brown Jaſp'-agate, mixed with much druſy and Ironſhot Quartz; from the ſame place.

777 Bluiſh grey Calcedony with Hornſtone, in druſy, alſo Ironſhot Quartz; from the ſame place.

778 Reddiſh brown Hornſtone which graduates into

Quartz, with adhering coarſe-grained, ſomewhat decompoſed Granite; from the ſame place.

779 Maſſive reddiſh brown Hornſtone in Quartz, alſo with adhering Granite; from the ſame place.

780 Very decompoſed Granite, upon the ſame compound.

781 The ſame, but in which detached cavities occur in which pyramidal Quartz has cryſtallized, in the ſame manner as Zeolite and Calcareous Spar is met with in Baſalt; from the ſame place.

782 Ironſhot Quartz with cubic impreſſions; from the Wild Boar.

783 The ſame, with pyramidal impreſſions; from the ſame place.

784 Mica cryſtallized in ſmall hexhædral priſms, in coarſe-grained Granite; from the Profr: Pinishaft.

785 Maſſive and diſſeminated Copper Pyrites, and alſo grey Copper Ore, in Quartz; from Rappolt.

786 Superficial Martial Pyrites upon druſy Quartz; from the ſame place.

787 Maſſive white Cobalt Ore, with grey Cobalt Ore in druſy Quartz, upon which hepatic Pyrites occurs; from the ſame place.

788 Specular white Cobalt Ore upon Quartz; from the ſame place.

789 Impure Cobaltic incruſtation upon druſy Quartz; from the ſame place.

790 Maſſive Native Biſmuth in Cobaltiferous Quartz; from the ſame place.

791 Similar, beautifully columbinated Native Biſmuth in Quartz, with a little decompoſed Argillite; from the ſame place.

792 Maſſive and coarſely diſſeminated Galena in druſy Quartz; from the ſame place.

793 Pearl grey, double hexhædral pyramidal cryſtallized Quartz, accumulated into a groupe, upon Argillite; from the ſame place.

794 Bright olive green Quartz with traverſing Siderocalcite; from the ſame place.

795 Coarſely diſſeminated Kupfernickel and Maſſive white Cobalt Ore, with overlaying Nickel Ochre, in reddiſh brown Quartz.

796 Superficial Cobaltic incruſtation upon druſy Quartz, with adhering Granite; from the ſame place.

797 A groupe of double hexhædral pyramidal Quartz Cryſtals, in and upon cellular Quartz, upon which alſo ſome Siderocalcite occurs; from the ſame place.

798 Quartz cryſtallized in perfect tetrahædral pyramids, which is often taken for Hornſtone; from the ſame place.

799 A piece of pale yellowiſh grey inclining to greeniſh, extremely fine ſplintery Quartz, with a little adhering Argillite; from the ſame place.

800 Quartz with notches, and ſome few ſmall Cryſtals of Martial Pyrites ſtrewed over; from the Moriz.

801 Yellowiſh grey Argillite with blackiſh grey oblong ſpots; from the Muhlberg.

802 Small garnet Cryſtals in Schiſtoſe Mica; from Rathswald.

803 Maſſive black Schörl in Ironſhot Quartz; from Schönhaide.

804 Indurated greeniſh and yellowiſh grey Talc, with reddiſh ſtripes and finely diſſeminated Emery; from Ochſenkopf.

805 Very beautiful reddiſh white Porcelain Clay; from Aue.

806 Decompoſed Granite; from the ſame place.

Rem. Here may be obſerved how the Felſpar paſſes by degrees into Porcelain Clay.

807 Dark greeniſh grey Amygdaloid, with ſtill numerous inlaying Globules; from Zwickau.

808 Lavender blue inclining to Cochineal red, indurated Lithomarga; from the ſame place.

809 The ſame, with yellowiſh white ſpots; from the ſame place.

810 Variegatedly tarniſhed Maſſive and cryſtallized Arſenical Pyrites, in ſomewhat decompoſed Argillite; from Hohenstein.

811 Copper Pyrites, traverſed by numerous very delicate ſlips of Quartz, with both walls of Argillite.

812 Dark liver brown Jaſper; from Traſdorf beſide Kemniz.

813 The ſame with reddiſh brown mixed, and with adhering druſy Quartz; from the ſame place.

814 Reddiſh brown Jaſper traverſed with black delicate veins; from the ſame place.

815 Minute reniform bluiſh grey Calcedony coated with druſy Quartz, in Jaſper; from the ſame place.

816 Maſſive, ſomewhat druſy, partly yellowiſh grey, partly ſmoke grey Quartz, upon reddiſh brown and liver brown Jaſper; from the ſame place.

817 Diſſeminated Mica in Jaſper, whereon in ſome places, very beautiful delicate dendritic delineations are exhibited; from the ſame place.

818 A very beautiful large piece of reddiſh brown, yellowiſh and reddiſh grey ſtriped Jaſper; from Gnandstein.

819 Diſſeminated Cinabar in Quartz, with adhering greeniſh grey Argillite on both ſides; from Hartenstein.

820 Maſſive Cinabar in Ironſhot Quartz, alſo with adhering Argillite; from the ſame place.

821 Greeniſh grey Argillite with mountain green ſpots; from Hormersdorf beſide Lösniz.

β. From uncertain places in this vicinity.

822 Reddiſh white Lamellar Baroſelenite; perhaps from the Adam Heber.

823 A greeniſh grey ſomewhat calcareous ſort of Stone, which efferveſces with acids, but in other reſpects very much reſembles Wacken, with inlaying Chamites and other ſmall indiſtinct petrifactions.

824 The ſame, with Pectunculites alſo.

825 The ſame Foſſil, with ſmall ſomewhat curved indiſtinct petrifactions.

826 The ſame, with coralliform, tending towards a center, very probably coral petrifactions.

827 The ſame Foſſil, with impreſſions of Pectunculites.

828 Diſſeminated Martial Pyrites in reddiſh grey ſomewhat Quartzy Argillite.

829 Diſſeminated compact Malachite in Ironſhot Quartz.

830 Specular white Cobalt Ore, upon a very Quartzy ſomewhat decompoſed Argillite.

831 Ironſhot grey Hornſtone.

832 Bluiſh grey Argillite traverſed by ſlips of Quartz.

833 Greeniſh grey very Quartzy Argillite.

834 Somewhat decompoſed Hornſtone with Dendritæ.

835 A variety of Trap, wherein the Quartz and Hornblende are ſmall-grained, but yet are ſtill to be diſtinguiſhed from one another, but in which no Felſpar occurs.

e. c. Johan Georgenstadt Country.

Charpentier, S. 249—266.

836 Superficial Native Silver, upon Jaſp'agate which is mixed with Quartz; from the Eleonora.

837 Reticulated Native Silver, with white Cobalt Ore in Quartz.

838 Superficial Native Biſmuth upon Ironſhot Granite; from the ſame place.

839 Yellowiſh white, paſſing into greyiſh, mountain Cork; from the ſame place.

g. Annaberg with Weisenthal and Schiebenberg.

Charpentier, S. 212—235.

840 Schiſtoſe Mica with Garnets; from Weisenthal.

841 Compact brown Ironſtone, upon which ſome Mica occurs; from Schiebenberg.

842 Dark greeniſh grey common Aſbeſtus; from the ſame place.

843 Delicate capillary Native Silver, with ſome Copper Pyrites and much overlaying Nickel Ochre, in Quartz; from the Marcus Röhling.

844 Maſſive Native Biſmuth, with much overlaying, in ſome places decayed, Cobaltic incruſtation; from the ſame place.

845 Decayed Hepatic Pyrites mixed with Nickel Ochre, upon Quartz; from the ſame place.

846 Small-grained greyiſh white Limeſtone; from Krotendorf.

Voigts Catal. No. 13.

h. Geyer.

Charpentier. S. 200—210.

847 Maſſive Magnetic Martial Pyrites mixed with ſome Copper Pyrites; from the Kiesszech.

848 Brown Garnet with a little intermixed Hornſtone; from the ſame place.

849 Coarſely diſſeminated Tinſtone with Arſenical Pyrites and much Mica in Quartz; from the Palm Tree.

850 Yellowiſh grey Mica of large and oblong granular diſtinct concretions; from the Stockwork at Geyer.

i. Ehrenfriedersdorf.

Charpentier. S. 190—199.

851 Maſſive Copper Pyrites in Actynolite; from the Krebsberg.

852 Coarſely diſſeminated Tinſtone in Quartz; from the Good Fortune.

853 Minutely diſſeminated Tinſtone in Ironſhot Lithomarga and Quartz, with a little adhering Gneiſs.

854 Maſſive and cryſtallized Tinſtone in Quartz, wherein ſome Steatites occurs; from the ſame place.

855 Diſſeminated and cryſtallized Tinſtone in a compound of Quartz and a very Talcoſe Mica; from the ſame place.

856 Maſſive Arſenical Pyrites, with Fluor Spar and cryſtallized Tinſtone in Quartz, with a little Steatites; from the Duke Charles.

857 Tinſtone and Cryſtals of Arſenical Pyrites, in a compound of indurated Lithomarga, ſome Steatites, very much Quartz, and ſome Fluor Spar; from the ſame place.

858 Violet blue and graſs green Fluor Spar in Quartz; from the ſame place.

k. Marienberg.

Charpentier. S. 173—189 and 200.

859 Carnation red and ſmoke grey tetrahædral priſmatic cryſtallized Lamellar Baroſelenite; from the Fabian Sebaſtian.

860 A compound of obliquely reflecting Galena, brown Blende and Martial Pyrites, and alſo, for the moſt part cryſtallized Baroſelenite; from the three young Brothers.

861 Maſſive Galena with ſome white Lead Ore and Martial Pyrites mixed, and alſo with adhering Ironſhot Quartz; from the Holy Trinity at Tschoppau.

862 Cryſtallized blue Lead Ore, with white ditto and ſome Ironſhot Quartz; from the ſame place.

863 Curved fibrous common Aſbeſtus, in ſome places ſtrongly tranſlucid; from Zöbliz.

864 Dark blackiſh green Serpentine, with Garnets; from the ſame place.

Voigts Catal. No. 8.

865 Greeniſh grey, black veined and ſpotted Serpentine; from the ſame place.

866 The ſame, mixed with Garnets and with adhering Iſabella yellow ditto, wherein are numerous ſtripes of Aſbeſtus; from the ſame place.

867 Browniſh red Serpentine traverſed with numerous veins of white Lithomarga; from the ſame place.

868 Diſſeminated Arſenical Pyrites and Tinſtone, with ſome Copper Pyrites and ſuperficial Fluor Spar, in greeniſh grey decompoſed Argillite which is mixed with much Quartz.

l. Altenberg.

l. Altenberg.

Charpentier. S. 153—168.

869 Maſſive and alſo cryſtallized Tinſtone in Quartz; from the Saxon Zinwald.

870 Cemented Native Copper, upon tubular Iron; from the Stockwork at Altenberg, as are alſo all the following ſpecimens to No. 889.

871 Maſſive variegatedly tarniſhed Copper Pyrites in Ironſhot Quartz.

872 Maſſive Martial Pyrites which in ſome places is perfectly hepatic Pyrites, in Quartz.

873 A compound of Arſenical Pyrites and Copper Pyrites.

874 Maſſive Arſenical Pyrites with diſſeminated ſpecular Iron Ore.

875 Maſſive and coarſely diſſeminated Arſenical Pyrites, with adhering Quartz and ſome greeniſh grey indurated Clay.

876 The ſame compound, but with much Copper Pyrites and viſible Hornblende.

877 Diſſeminated Molybdæna in dark mountain green indurated Clay.

878 Maſſive ſpecular Iron Ore in Quartz.

879 Diſſeminated ſpecular Iron Ore with ſuperficial compact Malachite, upon very Ironſhot Quartz.

880 Maſſive Tinſtone with ſome cryſtallized Martial Pyrites and overlaying Porcelain Clay which probably owes its origin to Felſpar.

881 Very coarſe-grained Granite wherein the Quartz predominates, with Tinſtone Cryſtals.

882 Very ſmall Tinſtone Cryſtals, in a dark greeniſh grey Steatites which is ſomewhat Ironſhot.

883 Small-grained Granite with much Mica and decompoſed Felſpar.

884 Yellowiſh white Maſſive Schörlite in an oblong grained Granite.

885 A very coarſe-grained Granitic Rockſtone, which on account of the largeneſs of the Quartz grains, might with no great impropriety bear the name of Breccia.

886 White indurated Lithomarga in very Ironſhot Quartz.

887 A ſimilar Ironſhot Quartz with dendritic delineations.

888 A viſibly decompoſed, very Quartzy Granite, with overlaying violet ſcented Moſs.

889 A Rockſtone of the Granitic order, wherein is an uncommonly ſmall quantity of Quartz, very much Mica, and the Felſpar is decompoſed to Steatites.

890 Very Ironſhot green Actynolite; from Gieshübel.

891 A Petroſiliceous firm Porphyry, wherein very much Quartz and little Hornſtone is intermixed; from Frauenstein.

892 Porphyry with much large-grained Felſpar; from the ſame place.

893 Decompoſed reddiſh brown Porphyry; from the ſame place.

894 Decompoſed greeniſh grey Porphyry; from the ſame vicinage.

895 Firm dark greeniſh grey Porphyry, with numerous ſlips of Quartz and only a few veſtiges of decompoſed Felſpar; from the ſame place.

Rem. This compound comes ſomewhat near to Trap.

m. Freyberg.

Charpentier. S. 77—132.

a. Brander Diſtrict.

896 Cryſtallized imperfectly dendritically aggregated Native Silver, upon and in Baroſelenite, with ſome adhering Gneiſs; from the Himmelsfürst.

897 Reticulated Native Silver with very much vitreous Silver Ore, in dark carnation red Lamellar Baroſelenite; from the ſame place.

898 Somewhat amorphous vitreous Silver Ore, upon Quartz wherein a little Martial Pyrites is diſſeminated; from the ſame place.

899 Maſſive dark and light red Silver Ore, mixed with much Martial Pyrites and Quartz; from the ſame place.

900 Maſſive dark red ſilver Ore in Galena which is mixed with a little Quartz; from the ſame place.

901 Cubic cryſtallized Galena, with much overlaying Hepatic Pyrites; from the ſame place.

902 Maſſive obliquely reflecting Galena, with much Hepatic Pyrites and overſtrewed Siderocalcite Cryſtals; from the ſame place.

903 A beautiful Calcareous Spar groupe of double trihædral pyramidal Cryſtals, upon decayed Gneiſs; from the ſame place,

904 Superficial Native Silver upon Quartz, wherein a little Galena and Copper Pyrites are diſſeminated, with adhering Gneiſs; from the Neuglück.

905 Thick ſuperficial red Silver Ore upon Quartz, with adhering Gneiſs; from the ſame place.

906 Coarſely diſſeminated Arſenical Pyrites in Quartz which is traverſed with Gneiſs in ſlips.

907 Red Jaſper mixed with much Quartz and Martial Pyrites; from the ſame place.

908 Plumoſe Antimonial Ore upon a Quartz and Siderocalcite groupe, which is ſeated upon a compound of Quartz and Siderocalcite wherein much Galena and Blende is mixed, with adhering Gneiſs underneath; from the Old Green Branch.

β. Stadt Diſtrict.

909 Maſſive grey Copper Ore with Copper Pyrites, very much Galena, a little Jaſper, and ſuperficial red Silver Ore, in Quartz; from the Beſcherten Glük, &c.

910 Pectinated Hepatic Pyrites upon Siderocalcite, with adhering Gneiſs; from the Morning Star.

911 A ſlightly curved and thick Slaty Gneiſs, wherein all the conſtituent parts are very diſtinct; from Löſniz.

Voigt. Catal. No. 9.

912 A Quartz groupe with much cryſtallized Martial Pyrites and alſo Siderocalcite, upon Maſſive Quartz; from the Kühſchacht.

913 Maſſive Galena which is mixed with much Martial Pyrites; from the ſame place.

914 a A compound of much Arſenical Pyrites with ſome Galena and Copper Pyrites; from the ſame place.

914 b Maſſive black Blende with Quartz, and a very large quantity of Martial Pyrites mixed; from the ſame place.

915 Cellular and druſy Quartz with much, in ſome places decayed, cryſtallized Martial Pyrites; from the ſame place.

916 Cryſtallized Gypſum upon decayed Gneiſs; from the Elizabeth.

917 The ſo named Coral Agate, or a compound of much Jaſper, Carnelian and principally Petroſiliceous Quartz; from the Halsbach.

γ. *Halsbruk Diſtrict.*

918 Maſſive purple Copper Ore, with compact vitreous Copper Ore in Quartz, whereon is ſome ſuperficial compact Malachite; from the Young King Daniel.

919 Maſſive Galena in Fluor Spar, with adhering ſpecular Hepatic Pyrites, and intermixed Quartz.

920 Maſſive Copper Pyrites with Galena and Quartz, with a little Fluor Spar and adhering decayed Gneiſs; from the Lorenz Gegentrum.

921 Maſſive variegatedly tarniſhed Copper Pyrites; from the ſame place.

922 Coarſely diſſeminated white Copper Ore, with Copper Pyrites in Quartz; from the ſame place.

923 Maſſive Copper Pyrites in Calcareous Spar, with adhering ſparry Iron Ore; from the ſame place.

924 A very beautiful piece of thick columnar, acicular Baroſelenite, upon Ironſhot Quartz; from the ſame place.

925 Maſſive Galena in druſy Quartz; from the Iſaac by Rothfurt.

926 Cryſtallized Galena with Hepatic Pyrites, in and upon druſy Quartz; from the ſame place.

927 A groupe of very broad hexhædral priſmatic Lamellar Baroſelenite Cryſtals, upon compact Baroſelenite with impreſſions; from the ſame place.

928 Similarly cryſtallized Baroſelenite, but ſmaller and ſomewhat cellularly accumulated, with ſome Martial Pyrites underneath; from the ſame place.

β. *Outer Diſtricts.*

ℵ. *Firſt Diviſion.*

929 A groupe of rectangular, tabular, Lamellar Baroſelenite Cryſtals; from Grosschirma.

930 Dark carnation red Maſſive Baroſelenite of very thin Lamellar diſtinct concretions; from the ſame place.

931 Superficial red Silver Ore upon Gneiſs; from Grossvoigtsberg.

ב. *Second Diviſion.*

932 Maſſive grey Copper Ore in druſy Fluor Spar which is mixed with a little Calcareous Spar; from Gersdorf.

933 Maſſive and ſome cryſtallized grey Copper Ore in the ſame compound, only with ſome Quartz in addition; from the ſame place.

934 Maſſive Galena in Fluor Spar, with adhering ſtriated Pyrites underneath; from the ſame place.

935 Coarſely diſſeminated Galena, with cryſtallized Martial Pyrites and Quartz, and alſo druſy Fluor Spar; from the ſame place.

936 Minutely diſſeminated Galena, in Fluor Spar which is mixed with a little tabular Baroſelenite; from the ſame place.

937 A groupe of perfectly cubic cryſtallized yellow Fluor Spar; from the ſame place.

938 Very large-grained Granite with much Mica; found between Gersdorf and Nossen.

939 Greeniſh grey Fuller's earth; from 'Rosswein.

940 Olive green, dark green veined, Serpentine; from Waldheim.

941 Red decompoſed Porphyry with much inlaying Lithomarga; from Rochliz.

942 Coarſely diſſeminated Argentiferous Arſenical Pyrites in Quartz; from Braunsdorf.

943 Maſſive Galena with capillary Native Silver and much Hepatic Pyrites mixed; from Oberschönau.

944 Small and fine-grained Galena in Siderocalcite, which is mixed with ſomewhat yellowiſh brown Semi Opal; from Memdorf.

945 A Granite very rich in Felſpar, wherein the Mica is half decompoſed to Steatites; from Oedervan.

946 Granite, wherein the Felſpar alſo is decompoſed, with finely diſſeminated Martial Pyrites; from the ſame place.

947 Maſſive Arſenical Pyrites with much black Blende, and a little Galena which is mixed with Siderocalcite; from Munzig.

948 Dark leek green Pitchſtone; from the Garsebach near Meissen.

949 Yellowiſh brown Pitchſtone; from the ſame place.

950 Reddiſh brown Pitchſtone which conſtitutes the baſis of a Porphyry, wherein very ſmall Felſpar and Quartz grains lay; from Korbiz.

951 An entirely decompoſed Porphyroidal Granite, juſt as it occurs cloſe beſide Meissen.

952 A ſimilar ditto, with very much coarſe-grained Felſpar; from the ſame place.

953 A Granite, not ſo very much decompoſed, wherein ſome Felſpar Cryſtals ſtill occur.

954 Very ſmall-grained Sienite, with a very large quantity of carnation red Felſpar; from Schärſenberg.

955 Maſſive yellow Blende with a little intermingled Siderocalcite; from the ſame place.

n. The Country on the Elbe.

Charpentier. S. 33—60.

956 Coarſe-grained Granite, in which the ſilvery white Mica is particularly conſpicuous; from Braunsdorf near Dresden.

957 A decompoſed Iſabella yellow argillaceous Porphyry; found as a boulder near Kesselsdorf.

958 A very beautiful yellowiſh brown Woodſtone with dark clove brown and yellowiſh white flame-like ſpots; from little Naumdorf by Dresden.

959 Bright yellowiſh grey Tripoli; from Potſchappel.

960 Slaty Coal, with intermingled Pitch Coal; from the ſame place.

961 A very impure ſandy compact Limeſtone; from the the Vicinity of Pirna.

962 Reddiſh white, ochre yellow, extremely fine-grained Sandſtone; from Pirna.

963 Fine-grained, and much more porous, yellowiſh grey Sandſtone, with an adhering decompoſed ſort of Stone which ſeems to have been Granite.

964 Small-grained Sandſtone with ſeparate inlaying coarſe grains, and indiſtinct petrifactions; from the ſame place.

965 The ſame Foſſil, with numerous impreſſions of petrifactions, principally of ſtreaked Chamites, and alſo apparently, inlaying Turbinites; from the ſame place.

966 Very ſolid greyiſh black Baſalt, with a little ſmall-grained inlaying Chryſolite; from Stolpe.

9. Upper and Lower Lusatia.

Charpentier. S. 5—32.

a. a. The Vicinity of Königsbruck.

Leſke's Tour through Saxony, 23.

967 Fine-grained Granite; from the ſummit of Keulenberg.

968 The ſame, to which on one ſide an extraordinary quantity of Quartz adheres; from the ſame place.

969 Another variety of this Granite, with very much black Mica and very little Felſpar; from the Keulenberg itſelf.

970 Small-grained Granite with pale ochre yellow and milk white Felſpar and a little Quartz, but much Mica; from the foot of Keulenberg.

971 A tetrahædral priſmatic diſtinct concretion of dark

ſmoke grey Hornſlate, with very ſmall diſſeminated Felſpar; from Tieſenthal.

Rem. This Foſſil is thus named frequently, by Leſke, as it is alſo by Charpentier and Voigt, now and then alſo Horn Porphyry and Schiſtoſe Porphyry.

Leſke, S. 26, 1ſt Variety.

972 The ſame of a greeniſh grey colour and traverſed by ſlips of Quartz; from the ſame place.

973 A long, very regular, ſimilar diſtinct concretion, on one ſurface of which, Mica and Martial Pyrites occur ſuperficially; from the ſame place.

974 The ſame Foſſil, with very much ſuperficial Martial Pyrites and much intermixed Felſpar; from the ſame place.

975 Light ſmoke grey very firm Hornſlate, with adhering Argillite; from the ſame place.

976 A very compact ſimilar Hornſlate which exhibits almoſt a coarſe-grained uneven fracture; from the ſame place.

977 Greeniſh grey very fine beautiful Novaculite, which preſents itſelf in the foregoing Hornſlate.

Leſke, S. 27. 2d Variety.

978 Dark greeniſh grey Argillite which very much approaches the baſis of the Schiſtoſe Porphyry and is alſo found therein; from the ſame place.

979 Schiſtoſe Porphyry with much Felſpar, and of ſmall granular diſtinct concretions; from the ſame place.

980 Schiſtoſe Porphyry ſtrongly inclining to greeniſh, which ſlightly reſembles Trap.

981 Decompoſed very Ironſhot Argillite; which alſo occurs in the former variety.

982 A ſort of pyramidal fragment of this Foſſil.

983 Coarſe-grained Granite which is ſaid to occur in layers between the Schiſtoſe Porphyry, in the Mountain at Tieſenthal.

984 Coarſe and ſmall-grained Granite wherein beautiful milk white Felſpar occurs; from Haſslicht.

Leſke, S. 32.

985 A ſimilar Granite, in which however the Felſpar is ſomewhat more decompoſed; from the ſame place.

986 Small-grained Granite extremely rich in Felſpar; from the ſame place.

987 Very fine-grained Granite; from the other ſide of this Mountain.

988 A boulder of genuine Trap, wherein the Felſpar is uncommonly diſtinct, but the Hornblende and Quartz are very cloſely united together, therefore the Quartz is not eaſily diſcriminated, with finely diſſeminated Martial Pyrites alſo here and there; from the Teufelsberg.

Leſke, S. 40.

989 A ſimilar piece, but in which the Hornblende in ſome places is large-grained.

990 A pebble of Amethyſt, which graduates into common Quartz at the margin; from this vicinage.

Leſke, S. 63. 1.

991 Clove brown Rock Cryſtal enveloped with a Quartz rind; from the ſame place.

Leſke, S. 63. 2.

992 A pebble of beautiful greyiſh white Rock Cryſtal; from the ſame place.

Leſke, S. 63. 3.

993 A bluiſh grey pebble of ſiliceous Schiſtus; from the ſame place.

Leſke, S. 64. 4. Schiſtoſe Hornſtone.

994 A ditto, in which the ancient priſmatic diſtinct concretion is ſtill obſervable, with the edges yet moderately ſharp; from the ſame place.

995 Smoke grey common ſiliceous Schiſtus, as a pebble, traverſed by numerous rifts in which it is Ironſhot; from the ſame place.

996 A pebble of Baſanite, interſected by two moderately broad Quartz veins.

997 A large Flint pebble of a ſmoke grey colour; from the ſame place.

Leſke, S. 64. 5.

998 Small greyiſh white Rock Cryſtal pebbles, which ſuperficially, in ſome places, reflect Irideſcent colours; from the ſame place.

999 Yellowiſh grey and milk white Calcedony pebbles; from the ſame place.

Leſke, S. 64. 6.

1000 A dark yellowiſh grey, paſſing into clove brown, Calcedony pebble; from the ſame place.

1001 An honey yellow Calcedony pebble; from the ſame place.

Leſke, S. 65. 2.

1002 A reddiſh brown Calcedony pebble; from the ſame place.

Leſke, S. 65. 1.

1003 The ſame of a dark yellowiſh brown colour; from the ſame place.

1004 A ſingular Calcedony pebble, in which the Calcedony where it is broken, exhibits an irregular ſurface, with very numerous ſmall, between the larger, inlaying depreſſions; from the ſame place.

1005 A pebble of common Quartz with inlaying reniform brown Calcedony; from the ſame place.

1006 A pebble of common ſomewhat druſy Quartz; from the ſame place.

1007 A pebble of blood red Jaſper traverſed by brown veins of the ſame; from the ſame place.

Leſke, S. 65. 3.

1008 A browniſh red Jaſper pebble; from the ſame place.

1009 A ditto, of a reddiſh brown colour; from the ſame place.

1010 A ſmall pebble of dark reddiſh brown Hornſtone which comes very near to Jaſper; from the ſame place.

1011 A ſimilar pebble traverſed by very numerous delicate rifts; from the ſame place.

1012 A pebble of Hornſtone, common Quartz and Jaſper, wherein the Quartz predominates; from the ſame place.

1013 A ſimilar pebble wherein the principal conſtituent part is Jaſper; from the ſame place.

1014 A pebble of Hornſtone, Flint, Jaſper and much Amethyſt; from the ſame place.

1015 A yellowiſh grey Hornſlate which bears an extraordinary reſemblance to grey Wacke, and to which, on one ſide, cryſtallized Quartz adheres; from the ſame place.

Leſke, S. 67. 1.

1016 A pebble of a large-grained Quartz Breccia, whoſe cement is of a liver brown colour and very Ironſhot; from the ſame place.

Leſke, S. 67. 3.

1017 A piece of a Baſalt boulder which from its irregular thick ſlaty fracture approaches to Hornſlate, with Hornblende Cryſtals ſparingly intermixed; from the ſame place.

1018 A ſimilar Baſalt boulder, only more decayed, Ironſhot in the rifts, and internally of a darker colour than the foregoing; from the ſame place.

b. b. Muſkau.

1019 Yellowiſh brown Aluminous earth.

Leſke, S. 79.

1020 Maſſive Mountain butter amid crumbling fragments of Aluminous earth.

Leſke, S. 84.

1021 Bituminous Wood, which internally is very jet-like.

Leſke, S. 76.

1022 Priſmatic, but rather indiſtinctly cryſtallized, broad foliated Gypſum, of a ſmoke grey colour.

Leſke, S. 80.

1023 A ſolitary large Cryſtal of broad foliated Gypſum which is quite tranſparent towards the edges; from the ſame place.

1024 More ſtellularly aggregated, ſimilar broad foliated Gypſum Cryſtals; from the ſame place.

1025 The ſame, where five form a perfect Star, but one is inſerted ſomewhat obliquely into the central point.

1026 A quantity of thoſe, in which however the extremities ſeem for the moſt part broken off.

1027 Broad foliated Gypſum, cryſtallized in very ſmall, ſimilar priſms, which lay upon the larger ones.

1028 Bright yellowiſh grey Potter's Clay, on one ſide of which are tolerably large Quartz grains.

Leſke, S. 141. a.

1029 Yellowiſh grey Potter's Clay, ſomewhat Ironſhot in the rifts.

Leſke, S. 141. b.

1030 The foregoing variety, but leſs Ironſhot and of a brighter colour.

1031 Moderately dark yellowiſh grey Potter's Clay, with an inlaying piece of petrified Wood, as it ſeems.

1032 Diſſeminated blue Martial Earth in a brown Loam.

Leſke, S. 142. 2.

1033 The ſame, but with ſtill very viſible vegetable roots.

1034 A yellowiſh grey Flint Pebble; from the mountain oppoſite Braunsdorf, as are all the following ſpecimens to No. 1041.

1035 Partly yellowiſh grey, partly yellowiſh brown Flint, with the remarkable Belemnitic petrifaction which is depicted in the 2d plate of Leſke's Tour.

1036 A Granite boulder, wherein the Felſpar is of a yellowiſh grey colour and nearly tranſparent, with little Quartz and inlaying black Mica in ſtripes.

Leſke, S. 143. a.

1037 Another Granite boulder, with an extraordinary quantity of partly dark carnation, partly dark browniſh red Felſpar, very little Mica, Hornblende and Quartz.

Leſke, S. 144. β.

1038 Another Granite boulder with much more black Mica, but the aggregate is ſomewhat indiſtinct and flaty, therefore the whole approaches to Gneiſs.

1039 A piece of a Trap boulder in which a moderate quantity of Felſpar occurs, which has this peculiarity, that it is not ſo oblong grained and ſeparate as in the common varieties of this Foſſil.

1040 An unbroken Trap boulder, in which there ſeems to be an extraordinary quantity of Hornblende, with decayed Felſpar.

1041 A piece of a boulder of Schiſtoſe Porphyry which ſeems pretty much decayed, thence the baſis is nearly intermediate between Argillite and Siliceous Schiſtus.

Leſke, S. 144. b.

1042 Dark clove brown lowland Argillaceous Iron Ore; from Zschächeln.

Leſke, S. 127.

1043 The ſame, of a yellowiſh brown colour; from Lausniz.

1044 The ſame mineral, with pretty numerous inlaying coarſe Quartz grains; from the ſame place.

1045 Dark brown, tolerably pure, lowland Argillaceous Iron Ore; from Biskowiz.

1046 The ſame, traverſed by coarſe Quartz fragments; from Collin.

Rem. Here it may be obſerved how the inlaid variouſly ſhaped Quartz grains, when they have fallen out, give to the whole an extraordinary cavernous appearance.

1047 The ſame, purer and of a ſomewhat darker colour; from the ſame place.

1048 A very good, dark clove brown, lowland Argillaceous Iron Ore; from Tribel.

1049 Dark brown lowland Argillaceous Iron Ore mixed with pretty numerous ſmall Quartz grains; from Königswald.

1050 The ſame, mixed with fewer but coarſer Quartz grains; from the ſame place.

1051 Amorphous Argillaceous Iron Ore; from Steiniz.

1052 The ſame, coated with much reddiſh brown Iron Ochre; from the ſame place.

1053 The ſame, covered with very numerous ſmall Quartz grains; from Bachlau.

1054 A piece of lowland Argillaceous Iron Ore; from Köyne beſide Forsta.

1055 Greyiſh black Baſalt which poſſeſſes a very great degree of compactneſs; from Guttie.

Rem. All theſe lowland Argillaceous Iron Ores are ſmelted at the Iron Works at Keule, for which, Limeſtone from Kummersdorf, and the Baſalt juſt mentioned are employed as fluxes.

e. e. Rothenburg.

1056 Liver brown Aluminous Earth, or rather Aluminous Bituminous Wood; from Lodenau.

Leſke, S. 150.

1057 A very poor lowland Argillaceous Iron Ore, in which alſo the blue Martial Earth occurs; from Steinbach.

Leſke, S. 151.

1058 A very Ironſhot brown indurated Clay, coated with Iron Ochre; from Obertormersdorf.

Leſke, S. 154. 3.

1059 A very good yellowiſh Pipe Clay; from the ſame place.

Leſke, S. 154. 4.

1060 Yellowiſh grey Clay, with numerous inlaying neſts of Martial Pyrites; from the ſame place.

Leſke, S. 154. 6.

1061 Iſabella yellow very Ironſhot and ſomewhat ſandy indurated Clay; from the ſame place.

Leſke, S. 154. 2.

1062 A reddiſh brown Ironſhot ſomewhat Aluminous Clay; from the ſame place.

Leſke, S. 184.

d. d. Stengersdorf.

α. Ullersdorf.

1063 A boulder of a yet undetermined aggregate Stone, which conſiſts of Quartz, much Felſpar, Mica and Hornblende granularly accumulated, of which the latter is coarſe-grained, the others ſmall and fine-grained; from Ullersdorf.

Leſke, S. 184.

Rem. It is probably a variety of Sienite.

β. Niesky.

1064 A coarſe-grained Granite boulder, wherein is con-

tained

tained an extraordinary quantity of Felſpar, the Mica alſo in it graduates into Hornblende.

Leſke, 8. 183.

1065 A part of a Granite boulder, wherein principally red, but alſo white Felſpar in quantity, further an intermediate Foſſil between Hornblende and Mica, and laſtly very little Quartz occur, in an half granular, half ſlaty compound.

1066 A third Granite boulder, in which the Quartz and Felſpar have an equal ſhare, and both are coarſe-grained.

1067 A piece of a nearly quite thin ſlaty Gneiſs boulder, wherein the Mica is moſtly of a Silvery white colour.

1068 Very fine ſlaty Gneiſs with black Mica and diſſeminated Garnets.

1069 A part of a boulder of Hornblende Slate.

1070 A Trap boulder, wherein tho' the Hornblende and Quartz are intimately united, yet both are ſtill diſtinctly to be diſcriminated, in which alſo the Quartz on the whole predominates, but the Felſpar lays therein in ſeparate, ſometimes coarſe grains, and wherein beſides here and there Mica and Garnets occur, a proof of the tranſition of this Foſſil into Gneiſs, which is ſo much the more evident as the whole turns out a little ſlaty.

1071 A large piece of a Trap boulder unuſually rich in Quartz.

1072 A boulder of ſmall-grained Trap, wherein the Hornblende on the contrary predominates.

1073 A very remarkable Trap boulder, in which both varieties occur together and graduate into one another, of which the one is very compact and with ſcarcely diſcernible particles, the other on the contrary ſmall-grained and with diſtinct concretions.

1074 A boulder of very coarſe-grained Trap, which however on one ſide verges on the ſmall-grained.

1075 A Siliceous Schiſtus boulder, but in which an extraordinary quantity of, in ſome parts druſy, Quartz occurs.

1076 A boulder of very beautiful Porphyry of a reddiſh baſis, with very much inlaying, in ſome parts decompoſed, Felſpar and Hornblende.

1077 A ſimilar Porphyry boulder, with much overſtrewed Quartz and Felſpar, but very few Hornblende grains.

1078 Porphyry with a browniſh red baſis, moderately coarſe-grained Felſpar, and very much coarſe and fine-grained inlaying Quartz.

1079 A remarkable variety of Porphyry, which is uncommonly rich in Quartz, and therefore forms the tranſition into Sandſtone.

1080 The ſame, but very fine-grained and therefore more compact.

1081 A boulder of reddiſh very fine-grained Quartzy Hornſtone.

1082 A boulder of greyiſh white Ironſhot Quartz.

1083 A yellowiſh grey and brown Flint boulder.

1084 A very remarkable Fungite in Quartzy Sandſtone.

γ. *Lower Rengersdorf.*

1085 Dark grey Argillite; from that place.

1086 Ironſhot druſy Quartz, part of a boulder; from Schumansberg.

1087 A part of a Hornblende Slate boulder, which is very Quartzy; on the road to the Great Dyke.

Leſke, S. 203.

1088 A Porphyry boulder uncommonly rich in Felſpar; from the ſame place.

1089 Lowland Argillaceous Iron Ore which poſſeſſes a ſlight luſtre, and therefore ſeems not to be very rich; from the eaſtern ſide of the Great Dyke.

δ. *Viehwegsberg.*

1090 A grey Porphyry with a tolerable quantity of inlaying ſmall-grained Felſpar and Quartz, and alſo with delicate greeniſh ſtreaks.

1091 The ſame Foſſil, with diſtinct, abundant, traverſing, greeniſh grey veins.

1092 The ſame, wherein the latter are extremely abundant, and the Felſpar can with difficulty any longer be diſcriminated from the baſis.

1093 A piece of Porphyry which is very Quartzy, and wherein the Felſpar is a little decompoſed.

1094 A more ſtrongly decompoſed Porphyry, with adhering druſy Quartz.

1095 Porphyry whoſe baſis is yet more decompoſed, with much intermixed druſy Quartz.

1096 A very decompoſed greeniſh grey Porphyry, both as to its baſis and the Felſpar.

1097 A Porphyry, wherein all this takes place in a ſtill higher degree.

ι. *Oberneuendorf.*

Leſke, S. 211.

1098 Greyiſh white, pale carnation red ſpotted, ſmall-grained Limeſtone, which is very Ironſhot in the rifts; from an old abandoned Quarry.

1099 The ſame, but in which the diſtinct concretions are ſomewhat ſmaller.

1100 Yellowiſh grey ſimilar Limeſtone, with adhering carnation red ditto and a little intermixed Argillite; from the ſame Quarry.

1101 Smoke grey reddiſh brown ſpotted granular Limeſtone, with intermixed Calcareous Spar; from the great Neuendorf Quarry.

1102 The ſame of a darker colour and much more fine-grained, with adhering Argillite; from the ſame place.

1103 Fine-grained ſimilar Limeſtone, in reddiſh Argillitic layers, with traverſing delicate Calcareous Spar ſlips; from the ſame place.

1104 A ſomewhat thick ſlaty Argillite, penetrated with a conſiderable quantity of Calcareous particles.

1105 Yellowiſh grey Hornſtone which approaches very nearly to Calcedony, however it is ſomewhat Ironſhot and occurs in Quartz; from the Hill there.

1106 Cellular very Ironſhot minute ſplintery Quartz; from the ſame place.

ζ. *Ludwigsdorf.*

Leſke, S. 213.

1107 Fine-grained Limeſtone, with adhering and intermixed reddiſh and greeniſh grey Argillite; from the New Quarry at that place.

η. *Hemmersdorf.*

Leſke, S. 214.

1108 Pale ſmoke grey granular Limeſtone, with a little intermixed Argillite.

1109 The ſame of a darker colour, with adhering very Calcareous reddiſh brown Argillite.

1110 The ſame, with a traverſing ſlip of pale carnation red Calcareous Spar.

1111 A very compact Trap boulder, wherein here and there, in the manner of the Ruſſian Traps, particles of Calcareous Spar occur, the whole is alſo tolerably fine-grained, ſo that the Felſpar is not eaſily diſcernible; out of a Quarry which lays nearer to Hemmersdorf than the Limeſtone quarry.

1112 Yellowiſh grey druſy Quartz which approaches to Hornſtone; out of a Garden at Hemmersdorf.

1113 The ſame, ſtill more rifty and Ironſhot; from the ſame place.

1114 Pale yellowiſh grey Petroſiliceous Quartz; from Steinberg.

Leſke, S. 215.

1115 The ſame of a greyiſh white colour; from the ſame place.

1116 A ſimilar variety of Quartz, in which may be obſerved tetrahædral columnar diſtinct concretions, as in Baſalt and ſimilar Rocks; from the ſame place.

1117 Quartz whoſe fine ſplintery fracture approaches ſo much to the even, that it verges on Calcedony; from the ſame place.

1118 Moderately compact, rather indiſtinct Trap, with traverſing ſlips of Calcareous Spar; from the Hill beſide Hemmersdorf.

1119 The ſame, very fine-grained and of a ſomewhat lighter colour, with a caſual admixture of Mica; from the ſame place.

1120 A boulder of carnation red very Quartzy Sandſtone; from the ſame place.

1121 A ſimilar Sandſtone extremely fine-grained of a yellowiſh grey colour, which actually graduates into common Quartz.

9. *Ebersbach.*

Leſke, S. 211.

1122 Reddiſh brown and yellowiſh grey ſpotted granular Limeſtone, with adhering Argillite; from the Old Quarry.

1123 The ſame, very fine-grained and of a darker colour, in Argillite; from the ſame place.

1124 Dark greeniſh grey Schiſtoſe Porphyry, with very delicate intermixed Felſpar; from the Valley between Ebersbach and Kunnersdorf.

1125 The ſame Foſſil, coarſe ſplintery, and with Iron-ſhot ſpots here and there.

1126 Somewhat lighter Schiſtoſe Porphyry; with very fine inlaying Felſpar and abundantly intermingled Hornblende, which however is indiſtinct.

1127 The ſame of a brighter colour, and more Felſpar, but leſs Hornblende.

1128 The ſame ſtill more compact, without Hornblende, but in ſtead of it, here and there with diſſeminated Silvery white Mica dots.

1129 Rather light mountain green ſofter Schiſtoſe Porphyry, penetrated with a moderate quantity of Hornblende; from the eaſt ſide of the rivulet beſide the Quarry.

1130 Very compact Schiſtoſe Porphyry, wherein beſide the Felſpar, a very little Mica is obſervable; from the weſt ſide of the rivulet below the Village.

1131 The ſame variety of the Schiſtoſe Porphyry, wherein however the Felſpar is rather diſtinct; near the foregoing place, juſt where a ſmall valley ſtretches to the Eaſtward.

1132 Similar very compact Schiſtoſe Porphyry; from the Eaſt ſide of the ſmall valley towards Dammersdorf.

1133 The ſame of a ſomewhat lighter colour, with much nearly Silvery white Felſpar; from the ſmall valley at Kunnersdorf.

1134 A genuine intermediate Foſſil between Schiſtoſe Porphyry and a very fine Novaculite; exactly midway between Ebersbach and Kunnersdorf.

1135 This ſame Stone, with a fracture however which paſſes from the fine ſplintery into the imperfectly conchoidal; from the ſame place.

x. *Kunnersdorf.*

Leſke, S. 210.

1136 Cryſtallized Calcareous Spar in large hexhædral Pyramids with druſy lateral planes, and coated with Iron Ochre.

1137 The ſame in ſomewhat ſmaller Cryſtals, in which it is very evident that theſe Pyramids are compoſed of accumulated Rhombs, which makes the lateral planes druſy.

1138 The ſame cryſtallization with the apices broken off.

1139 Calcareous Spar cryſtallized in ſmall double trihædral Pyramids accumulated in rows, upon Maſſive very Ironſhot ditto.

1140 A groupe of hexhædral priſmatic, acuminated in the uſual manner, Calcareous Spar Cryſtals, upon a Maſſive Calcareous Spar rendered impure by Argillite.

1141 The ſame acuminated by ſix planes, but extremely ſhort, in Maſſive white Calcareous Spar, in which the rhomboidal fragments and large granular diſtinct concretions are very diſtinct.

1142 Maſſive large-grained Calcareous Spar, in ſome parts cryſtallized in the clefts.

1143 Calcareous Spar cryſtallized in very ſmall Rhombs, upon Maſſive Ironſhot ditto.

1144 Small-grained ſmoke grey Limeſtone, traverſed by Argillite in layers, (called Bankſtone).

1145 A compound of very much Calcareous Spar and granular Limeſtone with very Ironſhot Argillite, therefore of an indifferent kind.

1146 Very beautiful fine ſlaty ſmoke grey Argillite; from the Gold Mine, as are alſo the following ſpecimens to No. 1157.

Leſke, S. 227.

1147 The ſame of a darker colour and ſomewhat ſuperior hardneſs, with ſuperficial druſy Martial Pyrites.

1148 The ſame of a ſtill ſomewhat darker colour.

1149 Yellowiſh, but here and there blackiſh grey Siliceous Schiſtus, partly Ironſhot, and partly traverſed with white ſlips.

1150 Very evident, rather bluiſh grey, thick, but perfectly plain ſlaty Siliceous Schiſtus.

1151 Very thick and ſomewhat irregularly ſlaty Siliceous Schiſtus, in ſome parts, of the foregoing variety, in others actually Baſanite.

1152 The ſame ſpecies of Foſſil, but entirely of the laſt mentioned variety, with traverſing ſlips of Quartz.

1153 A very beautiful ſmoke grey Siliceous Schiſtus, imperfectly conchoidal in the ſingle ſlates.

1154 The ſame Foſſil, only very Ironſhot in the rifts, and of a fine ſplintery fracture, therefore paſſing into Hornſtone.

1155 A remarkable variety of ſiliceous Schiſtus, which reſembles common Quartz, evidently part of a boulder.

1156 The ſame Foſſil, poſſeſſing the ſame peculiarity, but in a ſuperior degree.

1157 A piece of ſiliceous Schiſtus with an adhering ſmall Quartz groupe.

λ. *Geiersberg.*

Leſke, S. 205.

1158 A Poryhyry boulder with very much large-grained red Felſpar.

1159 A Sienite boulder wherein both, much Mica and Hornblende occur.

1160 Greyiſh white granular Limeſtone, with adhering grey ditto; from the North Eaſt ſide of the Mountain.

Leſke, S. 207. a.

1161 From the ſmoke grey ſomewhat inclining to bluiſh, ſmall-grained Limeſtone, with intermixed reddiſh brown very argilliferous ditto.

Leſke, S. 207. c.

1162 A Limeſtone mixed with an extraordinary quantity of Ironſhot Argillite, therefore of a very indifferent kind.

1163 Small-grained grey Limeſtone with traverſing Calcareous Spar veins and ſmoke grey Argillite.

1164 Fine-grained grey Limeſtone, with adhering greeniſh grey Argillite.

1165 Bright and greyiſh white Calcareous Spar, in grey granular Limeſtone.

1166 The ſame, with dots of Martial Pyrites and adhering Argillite.

1167 Yellowiſh white large-grained Calcareous Spar.

1168 Pale carnation red coarſe-grained Calcareous Spar, very much mixed with Argillite.

1169 Small-grained Calcareous Spar of an intermediate colour between pale carnation and roſe red, with much adhering Ironſhot Clay.

1170 Somewhat darker red Calcareous Spar, with an adhering compound of compact Limeſtone and Argillite.

1171 Maſſive and coarſely diſſeminated Calcareous Spar, in a granular Limeſtone mixed with Argillite.

1172 Calcareous Spar cryſtallized in very ſmall low Priſms acuminated in the uſual manner, upon Ironſhot Argillite.

Leſke, S. 208. No. 1.

1173 A groupe of double trihædral pyramidal Calcareous Spar Cryſtals which in ſome parts are variegatedly tarniſhed, upon a compound of granular Limeſtone and adhering Argillite.

Leſke, S. 208. No. 2.

1174 A groupe of ſomewhat ſmaller ſimilar Cryſtals, upon and in Ironſhot Argillite.

1175 The ſame, in ſome parts ſtill ſmaller, ſo that the Cryſtals are minute, in ſome parts alſo implanted upon the edges, on Ironſhot Argilliferous and granular Limeſtone.

1176 A ſimilar groupe upon Calcareous Spar with adhering Argillite.

1177 Calcareous Spar cryſtallized in acute ſmall double hexhædral Pyramids, upon ſmall-grained Limeſtone which ſeems to paſs into the compact.

1178 Small-grained Limeſtone which is mixed with Hornſtone, and in ſome parts in ſuch a manner that it ſeems to graduate into the compact; from the South Eaſt continuation of the Mountain, as are all the following ſpecimens to No. 1187.

1179 A granular Limeſtone mixed with very much Hornſtone, with a little adhering Argillite.

1180 Greeniſh grey Argillite.

1181 Reddiſh grey Argillite which is tolerably fine ſlaty.

1182 The ſame, ſomewhat darker und curved ſlaty.

1183 A little darker and thick ſlaty ſimilar Argillite.

1184 Smoke grey Argillite.

1185 A green Argillite very much ſpotted with compact red Ironſtone.

1186 The ſame, cellular and alſo Ironſhot.

1187 Reddiſh brown, yellowiſh white and greeniſh ſpotted Argillite.

1188 Decompoſed Porphyry with overlaying yellowiſh grey and reddiſh Argillite; from the Weſtern ſide of the Mountain.

1189 Greeniſh grey, reddiſh ſpotted Argillite; from the ſame place.

1190 The ſame, with inlaid pieces of Quartz; from the ſame place.

1191 Dark reddiſh brown, yellowiſh grey ſpotted Argillite; from the ſame place.

1192 A Breccia compoſed of Baſanite and common Hornſlate in an argillaceous cement; from the middle of the Mountain, as are all the following ſpecimens to No. 1216.

Leſke, S. 224.

1193 Smoke grey common ſiliceous Schiſtus, with a traverſing ſlip of white Quartz.

1194 A compound of Quartz and bright yellowiſh grey Hornſtone, in ſome parts rather Ironſhot.

Leſke, S. 225.

1195 A piece of a ſimilar Spheroid mixed with druſy Ironſhot Quartz.

1196 Druſy Quartz mixed here and there with ſiliceous Schiſtus.

1197 Ironſhot cellular and druſy Quartz.

1198 A compound of Hornſtone and Maſſive Quartz, with inlaying cryſtallized ditto.

1199 Quartz cryſtallized in ſmall low hexhædral Priſms with the uſual acumination, upon Argillite.

1200 Compact brown Ironſtone with impreſſions, and mixed with very numerous Quartz Cryſtals.

1201 Hexhædral priſmatic Quartz Cryſtals acuminated as uſual, upon compact brown Ironſtone.

1202 Quartz of columnar diſtinct concretions with pyramidal acuminations on the ſurface, whereby the tranſition into the regular external figure is effectuated.

1203 A groupe of low hexhædral Ironſhot Quartz Cryſtals, upon Ironſhot Maſſive Quartz.

1204 Similar, longer Quartz Cryſtals in a groupe, with adhering Argillite.

1205 The ſame, coated with red Iron Ochre, upon Maſſive Quartz.

1206 Slender acicular ſimilar Quartz Cryſtals upon Maſſive Quartz.

1207 A Quartz groupe with overlaying compact brown Ironſtone, forming a moderately thick overcaſt.

1208 Minute botryoidal compact brown Ironſtone, upon druſy Quartz.

1209 Moderately large botryoidal compact brown Ironſtone, in ſome parts decayed.

1210 The ſame, upon druſy Quartz, in ſuch a manner that it begins to form a ſecondary cryſtallization.

1211 Amorphous compact brown Ironſtone, upon Quartz.

1212 Arbuſtiform compact brown Ironſtone in Quartz.

1213 Cellular compact brown Ironſtone in Quartz.

1214 Brown Hæmatites in Ironſhot Quartz.

1215 Ditto variegatedly tarniſhed, in the ſame ſort of ſtone.

1216 Extremely fine-grained nearly blackiſh grey Limeſtone, with very numerous traverſing Calcareous Spar veins; from the Eaſtern ſide.

1217 The ſame but ſtill finer, ſo that it is only through a magnifying glaſs that the fine granular texture can be obſerved, with traverſing Calcareous Spar veins, and an adhering argillaceous Stone.

1218 The ſame, traverſed with very numerous Calcareous Spar veins, and alſo with ſome adhering ſmall-grained Limeſtone.

1219 A very compact Porphyry of a greeniſh grey colour, in which beſide the Felſpar, Mica alſo occurs; from the North Weſt ſide of the Mountain, as are all the following ſpecimens to No. 1222.

Leſke, S. 224. No. 1.

1220 Porphyry of a brighter colour, moſtly with ochre yellow Felſpar and tolerably diſtinct Mica.

Leſke, S. 224. 2.

1221 The ſame Foſſil, only the baſis is more compact and not ſo decayed as the foregoing.

1222 Quite decompoſed Porphyry, wherein the baſis and Felſpar are of a greyiſh white colour.

1223 Blackiſh grey Baſalt, ſomewhat decayed at the edges, with very little inlaying Chryſolite, and exteriorly, with ſuperficial Mica, part of a boulder found between Oberrengersdorf and the Berglehn.

1224 A ſimilar, ſomewhat coarſe ſplintery piece; from the ſame place.

1225 Yellowiſh grey ſiliceous Schiſtus which paſſes into Hornſtone, part of a boulder; from the Oberrengersdorf confines near to the Road.

μ. Oberrengersdorf.

1226 A very beautiful blackiſh grey Argillite; from the North ſide.

1227 A very argilliferous ſiliceous Schiſtus, which graduates into Hornſtone; from the ſame place.

1228 Pale ſmoke grey ſiliceous Schiſtus which comes very near to Quartz.

1229 Fine ſplintery Baſanite whoſe fracture however graduates into the conchoidal; from Burschensberg.

1230 A compound of this Foſſil and very compact Trap, wherein however the Quartz may ſtill be tolerably well obſerved; from the ſame place.

1231 The ſame, wherein alſo the particles of Felſpar are diſtinct; from the ſame place.

1232 A very compact variety of Trap, which certainly comes ſomewhat near to Porphyry, but yet is viſibly diſtinguiſhable from it, its genuineneſs is alſo demonſtrated by the tetrahædral trapezoidal appearance; from the ſame place.

1233 An aggregate Stone conſiſting of a reddiſh brown Argillaceous baſis, with inlaying ſmall globules of red Ironſhot Earth, which in ſome parts have fallen out, ſo that the whole forms an Amydaloid which is very like to Porphyry; from the ſame place.

1234 The ſame Foſſil, wherein however the baſis and contained parts are decompoſed, therefore the whole is more indiſtinct, with a traverſing ſlip of Quartz; from the ſame place.

v. Heideberg.

Leſke, S. 230.

1235 Yellowiſh white, here and there a little ochre yellow ſpotted Quartz.

1236 Greyiſh white druſy Quartz with a little adhering black Ore of Manganeſe.

1237 Black Manganeſian Ore forming a tolerably thick overcaſt upon Quartz.

1238 A piece of quite maſſive black Manganeſian Ore.

1239 The ſame Mineral minutely botryoidal, in Quartz.

1240 Large botryoidal black Manganeſian Ore, with a little adhering Quartz.

1241 Ditto, upon Quartz.

1242 Black Manganeſian Ore with globular impreſſions, upon indurated Clay.

1243 The ſame with minute impreſſions in Ironſhot Quartz.

1244 Blackiſh grey Manganeſian Ore in Quartz, of fine granular diſtinct concretions, with a little white Lithomarga.

1245 Black Manganeſian Ore upon indurated Lithomarga, from which may be obſerved an evident tranſition into yellowiſh brown Jaſper, and which is mixed with a little Quartz.

1246 A very compact Schiſtoſe Porphyry of the variety which graduates into Trap; from the ſecond head of the Heideberg.

Leſke, S. 232.

1247 A compound of fine ſplintery Quartz which graduates into ſiliceous Schiſtus, of genuine ſiliceous Schiſtus and Hornſtone; from the third head of the Heideberg.

1248 A compact fine Schiſtoſe Porphyry, entirely ſimilar to the firſt; from the fourth head of the Hiedeberg.

1249 Extremely fine and compact ſimilar Schiſtoſe Porphyry; from the ſame place.

1250 The ſame Foſſil with ſuperficial black Manganeſian Ore, and apparently with adhering Argillite; from the ſame place.

1251 Yellowiſh grey, and alſo greyiſh white Quartz, here and there with ſuperficial red Manganeſian Ore; from the Eaſtern foot of the Heideberg.

1252 Greeniſh grey Argillite Ironſhot in the rifts; from the ſame place.

ο. *Jenkendorf Road.*

1253 Greeniſh grey moderately ſoft and Ironſhot Argillite.

1254 The ſame with very coarſe-grained intermingled Quartz.

π. *Weiſe.*

1255 Yellowiſh grey Hornſtone which is mixed with druſy Ironſhot Quartz.

1256 A Tranſition from yellowiſh grey Hornſtone into blackiſh grey ſiliceous Schiſtus.

Duberau.

Leſke, S. 233.

1257 A Quartz pebble with overlaying Moſs.

1258 Greyiſh white Quartz; from the Frauenberg.

1259 The ſame, in many places very Ironſhot; from the ſame place.

1260 Quartz of ſmall and fine granular diſtinct concretions; from the ſame place.

1261 A four-ſided rhomboidal Quartz fragment, with inlaying Quartz Cryſtals; from the ſame place.

1262 An entire groupe of hexhædral priſmatic Quartz Cryſtals, upon fine-grained Maſſive Quartz; from the ſame place.

1263 Similar ſmall priſmatic Rock Cryſtals, upon Quartz; from the ſame place.

1264 A greyiſh black Baſalt boulder, with a little diſſeminated Chryſolite; from the foot of the Kirchberg.

1265 Very compact ſimilar Baſalt; from the part which baſſets to the day, on the Kirchberg.

1266 A piece of Baſalt with extraordinarily little Chryſolite, wherein on the other hand a Hornblende Cryſtal of middling ſize lays, which is very remarkable on this account, that one very evidently obſerves its conchoidal tranſverſe fracture, on which account it is that this Foſſil in ſmall leſs diſtinct particles, is occaſionally deſcribed as Lava Glaſs; from the ſame place.

1267 Yellowiſh grey fine ſplintery Quartz; from Duberau.

1268 The ſame, mixed with yellowiſh white and in ſome parts rather druſy; from the ſame place.

1269 The ſame, with quite finely diſſeminated Mica; from the ſame place.

1270 Yellowiſh grey Quartz, with much Mica diſſeminated; from Prisniz beſide Sproiz.

1271 Bluiſh grey fine ſplintery Quartz, with traverſing ſlips of yellowiſh white Quartz.

1272 A thin tabular fragment of the ſame, with a tolerably broad traverſing Quartz ſlip; from the ſame place.

1273 From the greeniſh grey, paſſing into the yellowiſh grey, tolerably coarſe ſplintery Quartz.

1274 Minute ſplintery yellowiſh grey Quartz; from Längenöls.

ς. *Harte.*

1275 Coarſe-grained Argillaceous Sandſtone.

1276 The ſame, with a ſmaller quantity of cement in proportion to the Quartz.

1277 The ſame Foſſil, but in which ſcarcely any thing Argillaceous can longer be obſerved.

MVSEVM
BRITAN
NICVM

σ. *Silberberg.*

Leſke, S. 240.

1278 Large grained Granite, wherein the Mica in ſome places is cryſtallized in hexhædral tables of middling ſize, all the remaining conſtituent parts are nearly in an equal proportion.

1279 Small-grained Granite which verges on the coarſe-grained, with very little Mica and a little decompoſed Felſpar.

1280 A ſimilar Granite, with ſtill more decompoſed Felſpar.

1281 Very fine-grained Granite, with adhering coarſe-grained.

1282 A narrow ſlip of extremely fine-grained Granite, which traverſes coarſe-grained.

1283 An extremely rare variety of Granite, wherein the Quartz occurs of a yellowiſh, ſtrongly inclining to reddiſh brown colour, the Felſpar on the contrary is Milk white, and the ſmall quantity of Mica is black, therefore it comes near to Hornblende.

τ. *Schoorstein.*

Leſke, S. 241.

1284 Coarſe-grained Granite, in which the Felſpar is half decompoſed.

1285 Yellowiſh white Quartz, with delicate blackiſh veins; from the Quartz rock between Schoorstein and Hohenstein.

1286 Reddiſh white Quartz; from the ſame place.

1287 A Quartz boulder, on one ſide of a light roſe red colour, and at the ſame time ſo rolled by water, that the whole has a greaſy appearance, which in many places, as I have had an opportunity of obſerving, would be conſidered as the effect of fuſion.

1288 Greyiſh white Quartz, mixed in ſome parts with reddiſh Clay.

v. Königshain Mountains.

Leſke, S. 243.

1289 Fine-grained Granite upon coarſe-grained; from the eaſtern ſide of Schwalbenberg.

Rem. One may obſerve very diſtinctly in this ſpecimen how this aggregate Stone occurs in layers.

1290 Coarſe-grained Granite; from a place much nearer to the ſummit of the Mountain.

1291 Decompoſed ſimilar Granite, with adhering large-grained; from the ſame place.

1292 Similar coarſe-grained Granite, with very little Mica; from the ſame place.

1293 Rock Cryſtal cryſtallized in hexhædral priſms acuminated in the uſual manner, penetrating and adhering to one another, upon Granite.

Leſke, S. 244.

1294 Many iſolated moderately dark clove brown Rock Cryſtals of middling ſize, with attached Felſpar.

1295 The ſame, of very dark browniſh black colour.

1296 A ſmall groupe of yellowiſh white cryſtallized Rock Cryſtal, upon Maſſive Quartz.

1297 A remarkable very large-grained Granite, wherein much Mica and Magnetic Iron Ore occur.

Leſke, S. 245.

1298 Fine-grained Granite, which is very Quartzy; from the Fürstenstein.

Leſke, S. 246.

1299 Coarſe-grained very Quartzy Granite, upon entirely fine-grained; from the Todtenstein.

Leſke, S. 248.

1300 Similar, more decayed Granite; from the ſame place.

1301 A variety of Granite very rich in Felſpar, part of a boulder from thence.

1302 Coarſe-grained Granite with ſomewhat decayed Felſpar, little Quartz, and very little Hornblende, with overlaying whitiſh and yellowiſh grey Steinflecht, (Lichen corallinus et Lacteus Linn.); from Hohenſtein.

1303 Coarſe-grained Granite, tolerably rich in Mica and Felſpar; from Steinberg.

Leſke, S. 252.

1304 Large-grained Granite, in ſome places with ſilvery white Mica and very coarſe carnation red, and alſo yellowiſh white Felſpar; from the ſame place.

Leſke, S. 253.

1305 Small-grained Granite with much intermixed green Actynolite; from the ſame place.

Leſke, S. 254.

1306 A ſimilar Granite very rich in Quartz, wherein a little light olive green Actynolite occurs; from the ſame place.

1307 Decompoſed Granite, with very much ſimilar, both Maſſive and cryſtallized green Actynolite; from the ſame place.

1308 Some acicular Cryſtals of this Foſſil in Granite; from the ſame place.

1309 Very Quartzy Granite intimately mixed with this Foſſil (the Actynolite); from the ſame place.

1310 The ſame, mixed in ſuch a manner with extremely delicate green Actynolite, that the whole bears a ſlight reſemblance to Trap; from the ſame place.

1311 Decompoſed Granite, wherein green Actynolite diſſeminated and in veins occurs; from the ſame place.

1312 A Sienite boulder; from the ſame place.

1313 A ſimilar variety of Sienite, which approaches to Granite; from Kampfenberg.

Leſke, S. 255.

1314 A piece of Sienite, with a tolerable quantity of inlaying Hornblende; from the ſame place.

1315 The ſame, with very little Quartz; from the moſt weſtern ſummit of it.

1316 A piece of a Sienite boulder which comes extraordinarily near to Trap; from the ſame place.

1317 The ſame, wherein the abundance of the Quartz is moſt ſtriking; from the ſame place.

1318 A genuine Trap boulder with intermixed Martial Pyrites; from the ſame place.

1319 An extremely fine Trap very rich in Hornblende, with inlaying large-grained Copper and Martial Pyrites.

> *Rem.* Thro' the magnifying glaſs, ſome extremely delicate particles of Felſpar are diſcoverable in it.

1320 An uncommonly compact piece of Trap, part of a boulder, with minutely diſſeminated Martial Pyrites; from the ſame place.

1321 Small-grained Granite, in which both ſmoke grey, and alſo tho' but ſparingly, yellowiſh grey Quartz occurs, which in ſome places become a little wine yellow; from Schulberg.

Leſke, S. 254.

1322 Another variety of Granite, wherein the Felſpar ſomewhat approaches to Steatites, and therefore is found of a greeniſh grey colour.

1323 Small-grained, in ſome parts coarſe-grained, half decompoſed Granite with little Mica; from Leibstein.

e. e. Schnelpförtel.

1324 A very Ironſhot compact Limeſtone; from Sorneudorf, as are the following to No. 1332.

Leſke, S. 282. No. 1.

1325 The ſame, but ſtill more porous and Ironſhot, of an Ochre yellow colour.

1326 Fine-grained yellowiſh Limeſtone whoſe fracture paſſes into the ſplintery.

Leſke, S. 282. No. 2.

1327 Iſabella yellow genuine Marle, with adhering ſomewhat druſy Calcareous Spar.

1328 Calcareous Spar cryſtallized in Rhombs with truncated angles and the edges rounded off, with Ironſhot Maſſive ſimilar Marle.

1329 Solitary ditto, broken off, therefore more diſtinct.

1330 A ſimilar Marle, here and there with very ſmall Calcareous Spar Cryſtals of the ſame kind, in ſome places, united in Macles.

1331 The ſame, with many cavities lined with Cryſtals which are not yet quite filled up, and wherein the Calcareous had cryſtallized gradually, as perhaps is the caſe alſo in the Amydaloid.

1332 Extremely fine ſplintery dark yellowiſh grey, reddiſh ſhaded compact Limeſtone.

Leſke, S. 282. No. 3.

1333 The ſame variety, of a ſomewhat darker colour and with a rather coarſe ſplintery fracture.

1334 The ſame, with druſy ſpots, and very Ironſhot.

1335 The ſame variety filled up with very ſmall hexhædral pyramidal Calcareous Spar Cryſtals.

1336 This ſame variety, ſomewhat more compact, and with very numerous, ſmall, inlaying petrifactions, which perhaps are Tellinites.

1337 The ſame, in a piece with pyramidal Calcareous Spar, and the before-mentioned petrifactions.

1338 A very beautiful fine-grained Sandſtone; from Hochkirch.

Leſke, S. 283.

1339 Somewhat more compact ſimilar Sandſtone, with iſolated inlaying coarſe grains.

1340 Rather porous coarſe-grained Sandſtone, as it occurs between Langenau and Rathwaſſen.

Leſke, S. 285.

1341 The ſame with an inlaying Quartz pebble which exceeds an inch in ſize; from the ſame place.

Leſke, S. 286.

1342 A Quartzy Sandſtone, in which the cement is not filled with an extraordinary quantity of grains.

1343 Imperfectly bituminous Wood, with inlaying Quartz grains.

Leſke, S. 296.

1344 A moderately coarſe-grained Sandſtone; from the Gorliz heath.

Leſke, S. 299.

1345 The ſame, with a more argillaceous cement; from the ſame place.

Rem. Both reſemble a Quartz Breccia.

1346 The ſame Foſſil, but ſmall-grained; from the ſame place.

1347 The ſame, of a tolerably uniform grain and compact; from the ſame place.

1348 Genuine Quartzy common Sandſtone with coarſe grains here and there; from the ſame place.

1349 Extremely fine-grained greyiſh white Sandſtone; from the ſame place.

1350 The ſame, of a little lighter colour, with ſolitary inlaying coarſe grains.

ſ. ſ. Webrau.

1351 Yellowiſh grey Pipe Clay; from Tiefenfurth.

Leſke, S. 302.

1352 Quartzy fine-grained Sandſtone; from a quarry on the left hand of Tiefenfurth.

1353 Yellowiſh grey ſmall-grained Sandſtone; from the grey Wall.

Leſke, S. 305.

1354 Yellowiſh white, ſomewhat yellowiſh grey ſtreaked Sandſtone; from the ſame place.

1355 Yellowiſh grey coarſe ſplintery Limeſtone, with adhering Marle; from the Wehrau Limeſtone Quarry.

1356 The ſame, more fine ſplintery, and argilliferous, of a ſomewhat lighter colour; from the ſame place.

1357 This ſame Foſſil with a thick ſlaty fracture, therefore it conſtitutes the tranſition into Marle; from the ſame place, as are all the following to No. 1376.

1358 A large Pectinite with very broad ſtreaks.

Leſke, S. 306.

1359 A ſimilar, ſomewhat flatter Pectinite.

1360 The ſame, now viſible only on one ſide, quite compreſſed on the other.

1361 A ſimilar Pectinite of which only the poſterior part is evident.

1362 A Pectinite with a double curvature, elevated towards the nib, and flatter towards the upper margin.

1363 A Pectinite with narrow ſubdivided ſtreaks.

1364 Two ſimilar, pretty delicately ſtreaked Pectinites cloſely united.

1365 One of the ſame kind, in which extremely little of the extremity is now viſible, ſo that it is probable that the original of this petrifaction belonged to the Oyſter-genus.

1366 Rather ſmall, moderately arched Pectinites.

1367 Still ſmaller, delicately ſtreaked Pectinites.

1368 A Pectinite, the ſtreaks of which particularly in the middle are rather unequal.

1369 A very flat compreſſed, almoſt rubbed ſmooth, Pectinite.

1370 A Mitilite in compact Limeſtone.

Leſke, S. 307.

1371 A large more indiſtinct Mitilite, in which there are not any ſtreaks longer viſible.

1372 Many ſmaller ditto, with the rough ſhell ſtill in ſome places, and then ſtreaked tranſverſely.

1373 Yellowiſh grey compact Limeſtone, with minute petrifactions, which perhaps may be Tellinites, but here and there with coarſely diſſeminated Calcareous Spar.

1374 A beautiful pale wine yellow Calcareous Spar groupe of hexhædral pyramidal Cryſtals.

Leſke, S. 306.

Rem. This Calcareous Spar is ſurrounded on four ſides by compact Limeſtone which is marlaceous.

1375 A ſimilar groupe of a brighter colour with adhering indurated Marle,

1376 A very beautiful groupe of ſimilar greyiſh white Pyramids upon Maſſive Calcareous Spar.

1377 Yellowiſh grey fine ſplintery compact Limeſtone, Ironſhot in the rifts; from the Wood beſide Wehrau.

Leſke, S. 304.

1378 The ſame perfectly marlaceous and extraordinarily Ironſhot; from the ſame place.

1379 A porous ſimilarly circumſtanced Sandſtone; from the ſame place,

1380 Druſy Limeſtone of this ſort, which here and there graduates into ſparry Iron Ore, but in other places is mixed with cryſtallized Calcareous Spar; from the ſame place.

1381 Yellowiſh grey Sandſtone, which exhibits ſolitary coarſe grains; from the Teufelsstub.

Leſke, S, 309.

1382 Separate fragments of Stone Coal, which occurs in this Sandſtone in veins; from the ſame place.

1383 Bituminous Wood, which is found between the Sandſtone layers; from the ſame place.

1384 Moderately coarſe-grained reddiſh and greyiſh Sandſtone, from Gneiſs.

Leſke, S, 309.

1385 A ſimilar rather druſy Sandſtone, here and there ſomewhat Ironſhot; from the Kreuzstein.

Leſke, S. 31c.

1386 Dark yellowiſh grey argillaceous Ironſtone; from the Lower Zeigelberg, from whence are alſo all the following to No. 1412.

1387 The ſame mixed with numerous Cryſtals of broad foliated Gypſum.

1388 The ſame of a brighter colour and mixed with extremely little brown Hæmatites.

1389 The ſame Foſſil, in ſome parts of an ochre yellow colour.

1390 The ſame, very compact and blackiſh brown.

1391 Browniſh red argillaceous Ironſtone.

1392 Argillaceous Ironſtone, with very diſtinct inlaying Tellinites which are ſtreaked tranſverſely, Gmelin's Linnæus, 13th Table, fig. 150.

1393 A piece of argillaceous Ironſtone wherein theſe petrifactions appear ſomewhat longer and broader and alſo more deeply ſulcated.

1394 This ſame Foſſil, partly with the ſame ſort of petrifactions, partly with mere impreſſions of them.

1395 The ſame, wherein alſo there ſeems to be petrified Mieſmuſcles, together with impreſſions of turrited Mondſnails.

1396 Turbinites, in bluiſh grey Loamſlate.

1397 The ſame of a darker colour, in rather larger rounds and with veſtiges of rough Muſcle Shells.

1398 The ſame Loamſlate with numerous impreſſions, as alſo with petrified Tell Muſcles, in ſome parts of which the rough ſhells ſtill exiſt.

1399 Blackiſh brown bituminous Slate which lays under the argillaceous Ironſtone, and contains impreſſions of Tellinites.

1400 A priſmatic macled broad foliated Gypſum Cryſtal.

Leſke, S. 311.

1401 The ſame but much ſhorter, and ſtellularly aggregated.

1402 A pebble of yellowiſh grey Rock Cryſtal, in which the ancient priſmatic form may ſtill be obſerved on one ſide.

1403 The ſame of a clove brown colour, which is ſtill unimpaired.

1404 A part of a pebble of honey yellow and pearl grey Calcedony.

1405 A piece of dark yellowiſh grey Calcedony with adhering milk white ditto.

1406 An Agate Pebble conſiſting of a large quantity of Calcedony, a little Amethyſt and alſo Jaſper.

1407 A Pebble of fortification Agate, wherein particularly much Calcedony of very thin and curved Lamellar diſtinct concretions occurs, with a very little Carnelian.

1408 A Pebble of fortification Agate which conſiſts of ſmoke grey Quartz mixed with white traverſing Hornſtone veins and violet blue Amethyſt.

1409 An Agate Pebble, of very much reddiſh brown Jaſper and whitiſh Amethyſt.

1410 The ſame, which is compoſed principally of blood red Jaſper and yellowiſh grey Calcedony.

1411 A ſimilar nodular Pebble of the ſame Jaſper and yellowiſh grey common Quartz.

1412 A Pebble of browniſh red Hornſtone, Lavender blue Calcedony and yellowiſh grey Quartz.

g. g. Lauban.

1413 Very finegrained reddiſh white Sandſtone; from Tumfelskeller, in Allersdorf before Lauban.

α. Nonnenberg.

1414 Blackiſh grey Baſalt, with very ſmall grains of Hornblende.

Leſke, S. 332

1415 Baſalt of coarſe granular diſtinct concretions, in ſome parts alſo large-grained.

Leſke, S. 333.

β. Steinberg.

1416 A Baſaltic ſpheroid, from the North Eaſt ſide of the Mountain, the maſs of which is tolerably compact.

1417 Very compact greyiſh black Baſalt with coarſe and ſmall diſſeminated Hornblende and alſo ſmall Chryſolite grains; from the higheſt part of the Mountain.

Rem. This Chryſolite it is which Leſke (S. 335.) called Schörl grains, and took for Lavaglaſs.

1418 A ſimilar piece, wherein the Chryſolite is coarſe-grained and very evidently half decayed.

1419 Compact greyiſh black Baſalt with ſolitary grains of Hornblende; from the preſent Quarry on the North Eaſt ſide near to the ſummit, from whence alſo are all the following ſpecimens to No. 1426.

1420 A ſomewhat decayed ſmall columnar Baſalt fragment; from the ſame place.

1421 A piece of Baſalt which on the ſurface is more decayed and much more argillaceous.

1422 A ſpherical piece of Baſalt whoſe outer rind aſſumes a very bole-like appearance.

1423 A piece of Baſalt, which is almoſt entirely, even internally, decayed to a greeniſh and yellowiſh grey unctuous Clay.

1424 A yellowiſh grey argillaceous Foſſil originating from decayed Baſalt by gradual alteration, which ſeems to be intermediate between Fuller's Earth and Bole.

1425 Fragments of greeniſh grey Bole.

Rem. This ſeems to be the laſt ſtage of the transformation of Baſalt, it firſt paſſes into Wacke, then into indurated Clay, after that into Fuller's Earth and from this into Bole.

1426 The ſame of a liver brown colour, wherein all the characters of this Foſſil are uncontrovertibly diſplayed.

1427 A very rifty Baſalt, with partly coarſe, partly ſmall Chryſolite grains, which are half decayed; from the North Weſt ſide.

Leſke, S. 335.

1428 The ſame, with the inlaying reddiſh brown bole-like Foſſil, which is very porous in ſome parts on account of the particles of this ſort having fallen out, and beſides the whole ſeems very argillaceous and like Wacke.

1429 Blackiſh brown Baſalt, with much inlaying decayed Chryſolite.

1430 The ſame, with a red and white ſpotted inlaying bole-like Foſſil.

Rem. Here the Baſalt makes a tranſition into Amygdaloid.

1431 Unmixed fragments of this yellowiſh white bole-like Foſſil.

1432 A piece of decayed Baſalt, with veſtiges of Zeolite, one ſuperficies is rather curved and probably the whole is part of a large Pillar.

1433 A ſomewhat micaceous greeniſh grey Argillite; from the foot of the Steinberg.

Leſke, S. 336.

1434 The ſame Foſſil, but more ſolid and Ironſhot in the rifts; from the ſame place.

1435 Moderately thick ſlaty Argillite, which, though it is uniformly decompoſed externally, yet interiorly evidently graduates into Siliceous Schiſtus.

γ. *Lehmgrube.*

Leſke, S. 337, 338.

1436 A very Ironſhot Sandſtone.

1437 Earthy Bituminous Wood which yet is not much mixed with Sand.

1438 The ſame, with inlaying decayed Martial Pyrites.

1439 Jet, with overlaying decayed Martial Pyrites.

1440 Reddiſh grey Argillite.

1441 The ſame, more Ironſhot.

1442 Pale greeniſh grey very fine ſlaty Argillite.

1443 The ſame, which verges on Novaculite.

1444 A piece of decompoſed Granite.

1445 A ſmall Baſalt fragment quite decompoſed to greeniſh Clay.

Rem. The latter Foſſils all lay in angular fragments in this place.

1446 Yellowiſh grey Flint, with overlaying Ochre yellow Ironſhot indurated Clay.
1447 Dark ſmoke grey Flint, as an overcaſt on a ſort of indurated Lithomarga, which is ſcarce at all Calcareous.
1448 A Petrifaction which repreſents the interior part of a Cochlite of the Trochite kind.
1449 A Terebratulite become Limeſtone.
1450 An Oſtracite ſtreaked longitudinally.
1451 Two adhering Petrifactions, of which the one is a Pectinite, but the other a tranſverſly ſtreaked Mitilite.
1452 A petrified Venus Muſcle.
1453 A Trigonelle which exceeds an inch in ſize.
1454 An abraded Fungite.

∂. *Oberlichtenau.*

Leſke, S. 321.

1455 A Turf traverſed with very numerous roots.
1456 The ſame, with a large quantity of overlaying blue Martial Earth.
1457 Yellowiſh brown lowland Argillaceous Iron Ore, which is very much decompoſed to Iron Ochre.
1458 A piece of blackiſh grey Baſalt, with much inlaying minute Hornblende grains and reddiſh brown Chryſolite, alſo on one ſide with genuine greyiſh white Quartz, which occurs coarſely diſſeminated in it; from a place between Lichtenau and Schreibersdorf.

Leſke, S. 323.

1459 The ſame Foſſil, but traverſed with more Hornblende.
1460 Very compact Baſalt with coarſely diſſeminated very much decompoſed Chryſolite.

1461 The ſame, with much yellowiſh white indurated Lithomarga in the rifts.

1462 Greyiſh black Baſalt of coarſe granular diſtinct concretions.

1463 A tetrahædral columnar diſtinct Baſalt concretion, which is about five inches long.

1464 A ditto but more rounded, and exteriorly decayed.

1465 A piece of a very large Pillar, in which, externally, planes meeting under well defined angles are obſervable, but the inner ſide of which preſents a concave ſurface, the whole is lightly decompoſed.

1466 A part of a decayed Baſaltic Spheroid, in which the degrees of decompoſition are perfectly obſervable.

1467 From the browniſh red ſlightly inclining to lavender blue, blood red and yellowiſh ſprinkled Lithomarga.

1468 A part of a fine-grained Granite boulder, wherein iſolated large Quartz grains lay in ſpots.

Leſke, S. 325. No. 2.

1469 A very coarſe fibrous Gneiſs boulder.

Leſke, S. 325. No. 4.

1470 A part of a large Granite boulder very rich in Felſpar, wherein green Actynolite traverſes in ſlips.

1471 A pebble of ſmoke grey Quartz which graduates into Rock Cryſtal.

Rem. This is evidently out of a Granite mountain, as coarſe-grained Mica and Felſpar lay in one of its lateral planes.

1472 A part of a decompoſed Porphyry boulder, which graduates into Sandſtone.

Spizberg.

Leſke, S. 326.

1473 Compact greyiſh black Baſalt, with much interſtrewed Hornblende and very little Chryſolite.

1474 Baſalt of ſmall granular diſtinct concretions, here and there with minutely diſſeminated greeniſh Chryſolite.

Leſke, S. 328.

1475 A piece of Baſalt in which more Hornblende occurs than in the former.

1476 Tolerably compact Baſalt of ſmall granular diſtinct concretions, which penetrate very deeply into the maſs.

1477 The ſame with rather larger granular diſtinct concretions, very rich in Hornblende and with more obvious Chryſolite.

1478 Baſalt, in ſome parts of coarſe granular diſtinct concretions with much Chryſolite, and on the whole ſpotted with dark and bright grey.

1479 Very coarſe-grained almoſt fibrous Granite; from the foot of the Spizberg.

1480 A ſimilar piece, wherein however the Felſpar is decayed.

1481 A piece of Granite, wherein the Mica is intermixed in a ſtill more veiny manner.

ε. *Silberberg.*

Leſke, S. 329.

1482 A piece of Baſalt, with little interſperſed Chryſolite; from the eaſt ſide of the Mountain.

1483 The ſame Foſſil, with more abundant Chryſolite, and exteriorly decayed.

ζ. *Oberlinde.*

1484 Greeniſh grey ſomewhat Quartzy Argillite.

Leſke, S. 329.

1485 The ſame, of a darker colour and more micaceous; from Kirkberg.

1486 The ſame, very thick ſlaty, and is evidently part of a boulder; from the ſame place.

1487 Argillite with traverſing ſlips of Ironſhot Quartz; from the ſame place.

1488 A very beautiful ſolid Baſalt, with finely diſſeminated Chryſolite and Hornblende; from Rauberg.

Leſke, S. 330.

1489 The ſame, with minutely diſſeminated Chryſolite; from the ſame place.

1490 A piece of Baſalt, wherein the Chryſolite on account of its reddiſh brown colour, approaches to Garnet; from the ſame place.

b. b. Marklissa.

1491 Coarſe-grained Granite; from the foot of the mountain on the left hand of Oertmansdorf.

Leſke, S. 348.

1492 A piece of Granite which comes very near to Gneiſs.

1493 A large piece of a coarſe-grained Granite, very Ironſhot in the rifts.

1494 Yellowiſh grey Quartz upon and in Granite; from the ſame place.

Rem. It occurs in it in neſts.

1495 A genuine tranſition from Granite into Gneiſs.

1496 Decompoſed Gneiſs, wherein the Mica poſſeſſes an uncommon mountain green colour; from Zangenberg.

Leſke, S. 350, 351.

1497 Thick ſlaty Gneiſs, wherein the Felſpar is entirely decompoſed to Porcelain Clay; from the ſame place.

1498 Large-grained Quartz, which here lays neſt-ways in the Gneiſs juſt as before in the Granite; from the ſame place.

1499 An aggregate Stone which is perfectly intermediate between Granite and Gneiſs; from the ſame place.

1500 Yellowiſh brown Quartz, penetrated with brown micaceous Iron Ore in the rifts; from the foot of the Mountain.

1501 Pale greyiſh white, a little druſy, Quartz; from the ſame place.

1502 Dark grey and greyiſh white, very druſy Quartz; from the ſame place.

1503 Quartz, which in ſome places graduates into Hornſtone, and is Ironſhot in the rifts; from the Weiſſenſtein.

1504 Yellowiſh grey Quartz, which actually graduates into Hornſtone; from the ſame place.

1505 A piece of Baſalt, with coarſe-grained decayed Chryſolite; from Taubenberg.

Leſke, S. 354.

1506 A in ſome places very porous Baſalt, but here and there ſtill with inlaying half decompoſed Chryſolite; from Ohnesorgensſteinberg.

Leſke, S. 355.

1507 The ſame, mixed with coarſe-grained Chryſolite, and not in the leaſt porous, on the contrary, very perceptibly Lamellar; from the ſame place.

1508 A very compact, extremely fine ſplintery Baſalt, with minutely diſſeminated green Chryſolite; from Knapberg.

Leſke, S. 356.

1509 A piece of Baſalt with the ſame diſſeminated Foſſil, very much decayed on one ſide; from the ſcattered pieces there.

1510 A piece of Gneiſs which is very Ironſhot and decompoſed; from Tſchochau.

Leſke, S. 357.

i. l. Messersdorf.

1511 Granular Limeſtone mixed with ſome Calcareous

Spar, in Schiſtoſe Mica; from Queiſufer beſide Goldentrau.

Leſke, S. 380.

1512 Minutely diſſeminated granular Limeſtone in this Schiſtoſe Mica.

1513 A piece of curved and thick ſlaty Schiſtoſe Mica; from the ſame place.

1514 An Amethyſt pebble; from the ſame place.

1515 Tolerably fine ſlaty, in the ſingle ſlates ſplintery, greeniſh grey Schiſtoſe Mica; from the firſt Goldberg there.

Leſke, S. 328. No. 1.

1516 The ſame, undulatingly curved ſlaty, with an adhering ſlip of Quartz; from the ſame place.

1517 Very fine ſlaty Schiſtoſe Mica, which approaches to Argillite, penetrated in the rifts with Mica.

Leſke, S. 382. No. 2.

1518 A genuine greeniſh grey Argillite, with but very ſlight veſtiges of Mica.

Leſke, S. 382. No. 3.

1519 A greyiſh white Quartz, which muſt lay in neſts in this Rockſtone, though Leſke does not notice it in his deſcription.

1520 A piece of a ſingular variety of the Schiſtoſe Mica, in which granular Limeſtone ſupplies the place of Quartz.

Leſke, S. 380.

1521 The ſame, wherein the Mica and Limeſtone are mixed in large grains, with adhering common Schiſtoſe Mica; from the ſame place.

1522 Greeniſh grey Baſalt, which is traverſed by quite faint ſlips of Quartz, that in ſome parts graduates into Hornſtone; from Rietstein.

Leſke, S. 383.

1523 A piece of Baſalt with much inlaying decayed Chryſolite, but coated in the rifts with Lithomarga; from the ſame place.

1524 Tolerably compact Baſalt, mixed with numerous Hornblende grains and little Chryſolite; from the ſame place.

1525 Very fine ſplintery rather lighter Baſalt, with half decayed Chryſolite diſſeminated, and exteriorly decompoſed to yellowiſh brown Clay; from the ſame place.

1526 Greyiſh black Baſalt, with coarſely diſſeminated Chryſolite which in ſome places is ſtill undecayed; from the ſame place.

1527 A piece of Baſalt of the ſort which ſeparates into thick Lamellæ; from the ſame place.

1528 Blackiſh grey Baſalt, wherein the Chryſolite actually graduates into green garnet; from the ſame place.

1529 The ſame, ſtill a little more compact, and in one place upon the garnet-like Foſſil, with dark pinchbec brown Mica; from the ſame place.

1530 A ſimilar Baſalt, wherein however much Hornblende is obviouſly intermixed; from the ſame place.

1531 Fragments of Baſalt, in which the Chryſolite is immediately mixed with Quartz; from the ſame place.

1532 The ſame, with extremely delicate rifts filled with Hornſtone and ſimilar Quartz; from the ſame place.

1533 The ſame, in which the Chryſolite is become very Steatitical thro' decay; from the ſame place.

1534 A piece of Baſalt with decayed Chryſolite, wherein it is quite evident that the pores originate from the decay of the latter; from the ſame place.

1535 Large-grained Granite, with ſuperficial violet blue Fluor Spar; from the ſummit of Klingenberg, as are alſo the following ſpecimens to No. 1542.

Leſke, S. 386.

1536 The ſame, rather more compact, in which the Fluor Spar is actually diſſeminated and of a dark violet blue colour.

1537 Very coarſe-grained Granite, with an extraordinary quantity of Ironſhot Felſpar.

1538 The ſame, reſembling Gneiſs.

1539 A piece of Granite which actually graduates into Gneiſs.

1540 Thick ſlaty Gneiſs, in which the three ingredients form diſtinct layers.

1541 Coarſe ſeparate Felſpar grains in Granite.

1542 The ſame, with very decayed Felſpar.

1543 A piece of Baſalt, mixed with a tolerable quantity of Chryſolite, and with ſeparate pores, which originate as uſual from the decay of the Chryſolite; from the foot of this Mountain, as alſo the following ſpecimens to No. 1546.

1544 A piece of Baſalt with very much, in ſome parts coarſe-grained, inlaying Chryſolite, which for the moſt part is ſomewhat decayed, and beſides with Hornblende and ſeparate Quartz grains.

1545 The ſame, of a tetrahædral columnar ſhape, and tarniſhed yellowiſh brown in the rifts.

1546 Greeniſh grey, ſlightly micaceous Sandſtone.

1547 A decompoſed Granite, graduating into Gneiſs; from Schwerdterthal.

Leſke, S. 387.

1548 A piece of Baſalt with much inlaying Chryſolite; from the ſame place.

1549 A coarſe-grained Granite, wherein is contained a tolerable quantity of the yellowiſh grey Quartz, which alſo occurs in the Baſalt; from Schwartzenberg.

Leſke, S. 389.

1550 A piece of Baſalt, with a large-grained inlaying Foſſil, which ſeems to be a variety of Granite with very little Mica, Quartz and Felſpar are on the contrary in abundance, and the latter ſtill retains its entire luſtre.

1551 Coarſe-grained Granite, wherein the Felſpar conſtitutes the predominating ingredient; from Vogelsberg.

Leſke, S. 391.

1552 A piece of tolerably thin ſlaty Gneiſs, abounding in Felſpar; from the ſummit of Vogelsberg.

1553 A variety of the ſame, in which Quartz predominates, and containing but little Felſpar; from the ſame place.

1554 A Quartz pebble, with inlaying decayed Felſpar and Mica; from Neugersdorf.

Leſke, S. 393.

1555 Similar very Ironſhot druſy Quartz, wherein here and there ſmall Rock Cryſtals occur; from the ſame place.

1556 Granite conſiſting of a ſingular compound of a large quantity of Quartz, with ſeparate bluiſh rounded Quartz grains, little Felſpar, and ſtill leſs Silvery white Mica.

Leſke, S. 393. 2.

1557 Granite reſembling Gneiſs, with inlaying milk white coarſe-grained Felſpar.

1558 Coarſe-grained Granite, mixed with black Schörl in addition to its uſual ingredients.

Leſke, S. 393. 3.

1559 Decompoſed Granite very rich in Felſpar; from Stephansberg.

Leſke, S. 393.

1560 Schiſtoſe Mica of a greeniſh grey colour; from the little Mountain, as are all to No. 1569.

Leſke, S. 394.

1561 The ſame, with a ſolitary traverſing thick ſlip of Quartz.

1562 A very thin ſlaty Schiſtoſe Mica.

1563 Still thin ſlaty Schiſtoſe Mica, with dendritic delineations.

1564 A genuine tranſition from Schiſtoſe Mica into Argillite.

1565 Schiſtoſe Mica with tolerably coarſe Garnet grains.

1566 The ſame, in which the cryſtalline figure of the Garnets is yet diſtinct.

1567 The ſame Foſſil, with a traverſing very thick Iron-ſhot ſlip of Quartz.

1568 A very much altered Schiſtoſe Mica, in which the layers of Mica are very thin in compariſon to thoſe of the Quartz.

1569 A ſingular variety of the Schiſtoſe Mica, wherein beſides the uſual Quartz which is ſtrongly tranſlucid, an extremely fine-grained ditto occurs, that is very crumbling and appears as if calcined, which if it bordered on Baſalt would aſſuredly be conſidered as burned.

1570 Tolerably ſtraight and thin ſlaty Schiſtoſe Mica; from Drechslersberg.

1571 The ſame, ſlightly curved ſlaty; from the ſame place.

1572 A piece of Schiſtoſe Mica, traverſed by a ſlip, wherein ſpecular Iron Ore, greeniſh grey Mica and Magnetic Iron Pyrites occur.

Leſke, S. 394.

1573 Decompoſed Granite, in which the Quartz is of a yellowiſh brown, in ſome parts actually of a wine yellow colour, and if it lay in Baſalt, would certainly on account of its conchoidal fracture and great tranſparency, be called Lava Glaſs; from the Tafelfichte.

Leſke, S. 402.

1574 The ſame, with more Mica and leſs decompoſed Felſpar.

1575 A ſimilar Granite, with much fine-grained Quartz; from the ſame place.

1576 Quite white Granite, with very little Mica, which is mixed ſomewhat in veins.

h. h. Gorliz.

a. Mountains round Wansche.

1577 A piece of Baſalt, mixed partly with ſmall-grained Chryſolite, partly with Felſpar, which, as is very frequently the caſe in Granite, is decompoſed to Lithomarga; from Wachberg beſide Hartmansdorf.

Leſke, S. 407.

1578 A piece of ſolid Baſalt, with more Chryſolite, and without any veſtiges of Felſpar; alſo from the top of Wachberg.

1579 Coarſe fibrous Gneiſs; from the foot of Wachberg.

1580 A piece of Baſalt which has very few pores, as well as but very little Chryſolite; from Obergerlachshain.

Leſke, S. 405.

1581 A piece of compact Baſalt, with fine-grained Chryſolite and Hornblende diſſeminated; from Queisersberg.

Leſke, S. 405.

1582 Reddiſh grey Quartz; from Weiſsenſtein.

Leſke, S. 406.

1583 Fine ſplintery Hornſtone, upon Quartz of columnar diſtinct concretions.

1584 Granite, with bluiſh grey Felſpar, yellowiſh grey, in ſome parts wine yellow Quartz, and Pinchbec brown Mica; from Burgberg beſide Siedenberg.

Leſke, S. 410.

1585 A piece of ſimilar Granite, with a large traverſing ſlip of Quartz; from the ſame place, as are alſo the following ſpecimens to No. 1591.

Leſke, S. 411.

1586 Large-grained Granite, with but little Mica.
1587 Granite reſembling Gneiſs, which is ſomewhat Ironſhot in the rifts.
1588 Curved fibrous Gneiſs.
1589 The ſame, pretty much decayed.
1590 Small-grained Granite, pretty rich in Felſpar and Mica.
1591 A tolerably bright greeniſh grey Baſalt which very much reſembles Trap, with coarſely diſſeminated reddiſh Chryſolite.
1592 Small-grained Granite; from Nieda.
1593 The ſame, with adhering ſmall-grained Granite which comes very near to Gneiſs; from the ſame place.
1594 The ſame, ſtill more intimately mixed with the Gneiſs-like Granite.
1595 Coarſe ſlaty ſomewhat Ironſhot Gneiſs; from this diſtrict.
1596 Baſalt of coarſe granular diſtinct concretions, with much diſſeminated Chryſolite; from Wolfartsberg.

Leſke, S. 414.

1597 A ſimilar Baſalt, wherein beſide the Chryſolite a good deal of Hornblende is alſo diſſeminated.

Leſke, S. 415.

1598 Baſalt with coarſely diſſeminated Chryſolite and red Garnet; from the ſame place.
1599 A part of a Baſalt boulder which is exteriorly pretty much decayed; from the ſame place.
1600 Several fragments of Baſalt which very evidently graduates into Wacke, but in which the Chryſolite is not in the leaſt decayed; from the ſame place.

Leſke, S. 416.

1601 Solid Baſalt, with much minutely diſſeminated Zeolite,

lite, and here and there with blunt angled ſmall Quartz pebbles; from the ſame place.

1602 Very fine ſplintery Baſalt, tarniſhed dark brown in the riſts; from Hammauer.

Leſke, S. 416.

1603 The ſame, wherein the Chryſolite in ſome places is ſtill quite undecompoſed, but in others perfectly decayed; from the ſame place.

1604 Baſalt of coarſe granular diſtinct concretions, externally decayed; from the Quarry there.

1605 Coarſe-grained Granite which graduates into Gneiſs; from the ſame place.

Leſke, S. 417, 418.

1606 Similar very Ironſhot and decompoſed Granite; from the ſame place.

1607 Small-grained Baſalt with much inlaying Hornblende and Chryſolite, which on the whole has almoſt a ſlaty texture; from the Burau Mountain.

Leſke, S. 420.

1608 The ſame, with inlaying, in ſome places decompoſed, Chryſolite, one grain of which has a compleat trihædral figure.

1609 Yellowiſh brown, in ſome places inclining to greyiſh, Argillaceous Earth, which originates from the acknowledged, often recited decay, and comes very near to Fuller's Earth.

1610 Coarſe-grained Baſalt, with very much inlaying Garnet, and alſo with intermingled Hornblende; from the Quarry.

1611 Dark browniſh red Ironſhot indurated Clay; from the eaſtern continuation of the Mountain.

Leſke, S. 421.

1612 Yellowiſh white indurated Lithomarga; from a hill between Wansche and Reudniz.

Leſke, S. 421.

1613 The ſame, of an intermediate colour between Iſabella yellow and carnation red; from the ſame place.
1614 The ſame, with dark red ſpots; from the ſame place.
1615 The ſame Foſſil, of a pearl grey and dark red colour; from the ſame place.
1616 The ſame, of Iſabella yellow, brick red, browniſh red, and bluiſh grey colours, in ſpots running thro' one another; from the ſame place.

Rem. Theſe varieties are partly ſoft—partly very ſoft.

1617 A very Quartzy Granite, with extremely little Mica; from the ſame place.

Leſke, S. 422.

β. Schönberg.

1618 Yellowiſh grey Fuller's Earth.

Leſke, S. 434.

1619 The ſame, traverſed by very numerous rifts.
1620 The ſame Foſſil, but Ironſhot in the rifts.
1621 Somewhat Ironſhot coarſe-grained Granite; from Schönberg itſelf.

Leſke, S. 435.

Rem. This piece ſeems to have lain about there looſe.

1622 Bluiſh grey Granite, with adhering yellowiſh brown, wherein dots of Garnet ſeem to preſent themſelves, which not at all unfrequently happens in Baſalt; from half way up the Mountain.
1623 A piece of Baſalt with coarſe-grained decayed Chryſolite; from the ſummit of the Mountain.

Leſke, S. 436.

1624 A ſmall globular piece of Baſalt, wherein may be obſerved the curved Lamellar diſtinct concretions.
1625 A piece of Baſalt of ſmall granular diſtinct concretions,

tions, poſſeſſing a metallic luſtre here and there in the rifts.

Leſke, S. 436.

1626 Baſalt of a blacker colour, with a little diſſeminated Chryſolite; from Burgsberg.

Leſke, S. 437.

1627 A very compact Baſalt, in which there is a good deal of Hornblende, and ſome but ſlightly decompoſed Chryſolite; from the ſame place.

1628 Decompoſed tolerably Quartzy Porphyry; from Wehlersberg.

Leſke, S. 438.

1629 The ſame, fine-grained, reſembling Argillite; from the ſame place.

1630 The ſame Foſſil, ſtill more fine-grained and very ſlaty; from the ſame place.

γ. *Vicinity of Hermsdorf.*

1631 A ſmall Baſaltic Spheroid, which exteriorly is very much decayed.

Leſke, S. 463.

1632 Moderately ſolid Baſalt, with much inlaying Hornblende and decompoſed Chryſolite; from the articulated columns beſide Lauterbauch.

Leſke, S. 463.

δ. *North-Eaſt vicinity of Görliz.*

1633 A piece of greeniſh grey Schiſtoſe Porphyry, which graduates into true Porphyry, but at the ſame time reſembles grey Wacke in appearance.

Leſke, S. 448.

1634 A ſimilar piece, wherein ſtill leſs Felſpar occurs, and the baſis is fine ſplintery; from the ſame place.

1635 The ſame, more inclining to grey, and with a very Quartzy baſis.

1636 The ſame Foſſil, but in the recent fracture of a blacker colour and ſomewhat reſembling Baſalt; from the ſame place.

1637 A decompoſed Argillite, which at the ſame time is very Ironſhot; from the Gold Mine (as are all the ſpecimens to No. 1644) and probably alſo from the courſe of the vein.

1638 Rather more ſolid ſimilar blackiſh grey Argillite; from the ſame place.

1639 A piece of Schiſtoſe Porphyry, in which the tranſition into Argillite is very evident, with numerous traverſing narrow ſlips of Quartz and diſſeminated Martial Pyrites.

1640 A bluiſh grey ſolid Argillite, which ſeems to graduate into Siliceous Schiſtus, interſected by ſlips of Quartz and Martial Pyrites.

1641 Maſſive Martial Pyrites with adhering Argillite.

1642 A very druſy Ironſhot conſiderable ſlip of Quartz, with adhering Argillite.

1643 Druſy Quartz, with ſmall hexhædral priſmatic Cryſtals acuminated in the uſual manner.

1644 An intermediate Foſſil between Quartz and Hornſtone, ſtudded with very ſmall Cryſtals.

1. *South-Weſt ſide of Görlitz.*

1645 Moderately coarſe-grained Granite.

Leſke, S. 450.

1646 Greeniſh grey Argillite, with diſſeminated Mica and druſy Quartz.

1647 The ſame, very thin ſlaty.

Rem. This is met with in veins there.

1648 A very beautiful moderately coarſe-grained Granite, wherein the Felſpar is of an almoſt yellowiſh grey colour, which only here and there paſſes into ſmoke grey.

Leſke, S. 451.

1649 Similar ſomewhat decompoſed Granite; from the ſame place.
1650 Coarſe-grained Granite, ſomewhat approaching to Gneiſs; found before Neisvorstadt.

Leſke, S. 451.

1651 A perfect tranſition from decompoſed Granite into Gneiſs.
1652 Very decayed ſmall-grained Granite; from the loweſt foot of Landskrone.

Leſke, S. 451.

1653 The ſame perfectly decompoſed, and with ſuch an overlaying bole-like Earth as proves that here Baſalt had lain immediately upon the Granite.
1654 The ſame, from the ſame vicinage, wherein the Felſpar is in ſome places more, in others leſs decompoſed; from the ſouth-eaſt ſide of Landskrone.

Leſke, S. 457.

1655 The ſame, ſmall-grained and with very much Felſpar; from the ſame place.

ζ. *Clay-Pits beſide Görliz.*

Leſke, S. 465.

1656 Yellowiſh grey Pipe Clay which comes very near to Porcelain Clay.
1657 The ſame, a little Ironſhot.
1658 The ſame Foſſil of a more reddiſh colour.
1659 Yellowiſh white, brick red ſpotted, indurated Clay, which graduates into Lithomarga.
1660 The ſame, of an Ochre yellow colour.
1661 A genuine yellow Earth of a dark Ochre yellow colour.

1662 A Sandſtone mixed with this Earth.

η. *Landskrone.*

α, α. *From the foot.*

1663 Coarſe-grained Granite with adhering fine-grained; from a place below the Gypſum Quarry.

Leſke, S. 461.

1664 Baſalt of a tolerably light grey colour, and very much inlaying, in ſome parts decayed, Chryſolite.
1665 Dark and bright grey ſpotted, ſmall-grained Baſalt.
1666 Compact ſolid Baſalt, with coarſely and finely diſſeminated Chryſolite.
1667 Perfectly decayed Baſalt, which in ſome places contains a large quantity of Earth reſembling Bole, with interpoſed Baſalt conſiſting of Lamellar diſtinct concretions.

Leſke, S. 462.

1668 The ſame, ſtill more porous and therefore lighter.

Rem. In both ſpecimens it is obvious how the decayed Baſalt graduates into this unctuous ſpecies of Earth.

1669 Bluiſh grey Baſalt, very much reſembling Amygdaloid, in ſome places with elliptic pores, which here and there are ſtill half, but in other places entirely filled with the yellow Earth.
1670 Dark Ochre yellow paſſing into grey, Fuller's Earth, ſlightly reſembling Bole.
1671 A pentahædral columnar tolerably large piece which conſiſts entirely of this Earth, ſo that evidently the Baſalt muſt have been decompoſed into it.

Rem. It deſerves to be noticed as a ſingular phœnomenon, that a perfect hexhædral priſm of Chryſolite occurs in it.

1672 Baſalt of the firmeſt kind, which by deſcription lays under the foregoing, here and there with diſſeminated Chryſolite.

β. β. From eaſtern ſide of the Stone Quarry.

1673 Very decayed porous Baſalt which had better be called a Baſaltic Amygdaloid, wherein are ſtill contained abundant veſtiges of the Earth with which theſe pores were formerly filled.

1674 The ſame Foſſil, but the pores not ſo uniform, are ſmaller and larger promiſcuouſly.

1675 The ſame Foſſil, penetrated more uniformly with the ſulphur yellow Argillaceous maſs, which gives to the whole, in the opinion of many Geologiſts, a Volcanic appearance.

Rem. In theſe ſmall cavities is contained a black Foſſil, which ſeems to be minute botryoidal black Manganeſian Ore.

1676 A piece of Baſalt which is ſomewhat firmer, and in which decompoſed Felſpar ſeems to lay.

1677 A piece of that yellowiſh brown Argillaceous maſs, which here alſo lays between the Baſaltic layers.

1678 The ſame, of a ſomewhat darker colour, here and there ſpotted with a little black, which perhaps may be owing to Mangaueſe.

γ. γ. The Northern Declivity.

1679 Compact Baſalt which neverthleſs may be ſeparated into Lamellæ, with diſſeminated ſolitary grains of Chryſolite.

1680 Baſalt of coarſe granular diſtinct concretions, in other reſpects ſimilarly circumſtanced.

1681 Fine ſplintery Baſalt, with more abundantly diſſeminated Chryſolite.

1682 The ſame, in which alſo more Hornblende ſeems to occur.

δ. δ. From the Weſtern ſide.

1683 A piece of Baſalt with oblong blebs, in which Chryſolite ſormerly occurred, but at preſent only a thin overcaſt of a white Earth; from Steinhauſen.

Leſke, S. 457.

1684 The ſame, with much more numerous pores which have an extremely thin bluiſh grey coating, in colour agreeing with Calcedony, in hardneſs with Lithomarga.

1685 A piece of a blackiſh grey not very porous Baſalt; from the layer which Leſke mentions in S. 457.

1686 Rather firmer ſimilar Baſalt, with a bluiſh overcaſt in the pores and a little diſſeminated Chryſolite; from the irregular columns mentioned in S. 458.

Rem. Probably that overcaſt is nevertheleſs Calcedony, which only as it is ſo delicate, permits itſelf to be ſcraped.

1687 A very large, above an inch thick, curved Lamellar diſtinct concretion of compact Baſalt, mixed only here and there with ſome Chryſolite.

1688 Compact Baſalt, in which are only a few minute Garnet and Chryſolite dots, with an adhering aggregate Stone which is a variety of Sienite, in which indeed the Felſpar is decompoſed, but no veſtige of fuſion is exhibited; from the vicinity of the Limekilns.

Leſke, S. 459.

1689 The yellowiſh brown Foſſil penetrated with ſulphur yellow Earth, which is ſaid to lay without connection upon the Granite.

Leſke, S. 460.

s. s. *South-Weſt ſide of Landskrone.*

1690 A piece of externally decayed Baſalt, mixed here and there with decayed Chryſolite.

1691 The ſame, part of a column, in which, tho' ſolid, yet even ſo is mixed a reddiſh Foſſil of the Garnet kind.

1692 The ſame, with coarſe grains of this Foſſil.

1693 A piece of Forge Slag full of large bubbles, which lays ſtrewed about on this ſide.

Leſke, S. 455.

1694 Porous Baſalt, out of which the red grains are decayed, and therefore have left ſmall apertures; from the vertical columns (S. 455), from whence are alſo the following.

1695 Reddiſh brown ſmall-grained Baſalt, which contains very numerous dark blood red ſmall grains of this Foſſil.

1696 A piece of Baſalt of thick and tolerably ſtraight Lamellar, but alſo at the ſame time coarſe granular diſtinct concretions.

1697 The ſame, in which theſe diſtinct concretions take an oblique direction, and therefore run into the oblong granular.

ζ. ζ. Southern ſide of Landskrone.

1698 A piece of Baſalt of tolerably thin Lamellar, but at the ſame time, coarſe and ſmall granular diſtinct concretions, with no great quantity of Chryſolite.

1699 Compact Baſalt with tolerably large pores, which originate as uſual from the decay of Chryſolite, which may ſtill be diſcovered in ſome places.

1700 A piece of Baſalt, with that above (No. 1688) deſcribed Granite adhering, but in which at the ſame time oblong granular Baſalt fragments are inlaid, and moreover many of the Felſpar grains which are contiguous to the Baſalt poſſeſs their uſual luſtre.

Leſke, S. 459.

1701 Tolerably large porous Baſalt, wherein the pores are ſlightly coated with the bluiſh grey ſort of ſtone like Calcedony, and with Chryſolite diſſeminated here and there.

1702 Very compact Baſalt, with ſmall-grained Chryſolite and a large-grained piece of decompoſed Felſpar, but in which not the ſlighteſt veſtige of fuſion appears.

1703 Compact greyiſh black Baſalt, with inlaying, ſlightly greeniſh, ſtill unimpaired Chryſolite.

1704 The ſame, of ſomewhat indiſtinctly granular diſtinct concretions, with much Chryſolite, which for the moſt part has experienced ſome alteration.

1705 The ſame, wherein alſo minute Hornblende Cryſtals are viſible.

1706 Baſalt of tolerably diſtinct ſmall granular diſtinct concretions, with inlaying, half decayed Chryſolite.

1707 The ſame, of very diſtinct ſmall granular diſtinct concretions, with a little more Chryſolite.

1708 Compact fine ſplintery Baſalt inclining to greyiſh, abſolutely without pores.

1709 Reddiſh brown indurated Clay, which very much reſembles that bole formerly mentioned, with ſmall cohering Quartz and Felſpar grains, and thin overlaying black Manganeſian Ore.

l, l. Weigsdorf,

1710 Coarſe-grained Granite, from the foot of Landskrone, on the road to Jauernik.

1711 Coarſe-grained, ſomewhat ſlaty Granite, which graduates into Sienite; from the Jauernik road.

Leſke, S. 469.

1712 Small-grained, in ſome places decayed, Granite; from the ſmall hills among the Jauernik Mountains.

1713 A ſimilar, a little firmer Granite; from the hindermoſt Jauernik Mountain.

1714 A piece of Baſalt with diſſeminated Zeolite, which in ſome places is decayed and therefore forms empty pores, and beſides with a little minutely diſſeminated Chryſolite; from the ſummit of the Mountain.

1715 Yellowiſh grey Quartz; from a hill eaſtward of the foremoſt Jauernik Mountain.

Leſke, S. 470.

1716 The ſame, ſomewhat darker, with ſuperficial black Manganeſian Ore.

Bernstadtel.

Bernstadtel.

1717 Coarſe-grained Granite with ſomewhat bluiſh grey Felſpar; from the Goldberg.

Leſke, S. 471.

1718 A ſimilar Granite with rather brighter Felſpat; from the ſame place.

1719 Decompoſed Granite with very little Mica; from the ſame place.

1720 Baſalt of a greyiſh black tolerably compact appearance, mixed with ſome Hornblende, ſlightly decayed Chryſolite, a good deal of common Quartz and a little Felſpar; from Bernardsberg.

Leſke, S. 475, 476.

1721 A piece of Baſalt mixed with much reddiſh brown Chryſolite and alſo Hornblende; from the ſame place.

1722 Tolerably compact Baſalt, with finely diſſeminated Hornblende and Chryſolite; from Quargelberg.

Leſke, S. 477.

1723 Tolerably compact greyiſh black Baſalt, mixed with ſome Chryſolite, which in ſome parts has fallen out; from a place near Kiesdorf.

1724 A Baſalt fragment, from thoſe laying ſcattered about there.

1725 A quite decayed Baſalt fragment.

Leſke, S. 478.

1726 A piece of Baſalt of ſmall granular diſtinct concretions, with coarſe inlaying Chryſolite wherein ſome decompoſed Felſpar occurs; from Knorrberg.

Leſke, S. 479.

1727 A Rockſtone which is intermediate between Granite and Gneiſs; from the ſouth-weſt ſide of it.

Leſke, S. 480.

1728 Very compact greyiſh black Baſalt, in which but little extraneous in general, and only in one place decayed Chryſolite occurs; from the ſouth-weſt ſide of it.

1729 Very coarſe-grained Granite; from Galgenberg.

Leſke, S. 481.

Beſide Weigsdorf itſelf.

1730 Large-grained Granite with reddiſh white, ſomewhat Ironſhot Felſpar; from the banks of the Witge.

Leſke, S. 483.

1731 A Trap-like Rockſtone with only ſolitary inlaying Felſpar; from the ſame place.

Leſke, S. 484.

1732 The ſame Rockſtone, ſtill more fine-grained and compact; from the ſame place.

1733 Schiſtoſe Mica with a curved ſlaty fracture.

Leſke, S. 485.

1734 Similar very Ironſhot Schiſtoſe Mica; from the ſame place.

Leſke, S. 486.

1735 A piece of a decompoſed Rockſtone which agrees very much with No. 1732, and perhaps derives originally from the ſame ſpecies.

1736 Compact greyiſh black Baſalt, with very numerous Chryſolite grains, which for the moſt part have a reddiſh brown colour.

m. m. Zittau.

α. Gieſmansdorf.

1737 A Flint pebble with ſmall inlaying petrifactions.

Leſke, S. 418.

1738 A Quartz pebble which is of a white and pearl grey paſſing into a carnation red colour, which rarely occurs in it.

1739 A piece of bituminous Wood with inlaying Jet.

Leſke, S. 488.

1740 A ſimilar very impure piece of a yellowiſh brown colour.

1741 Imperfect ditto of a bright liver brown colour.

1742 The ſame Foſſil with roots yet inlaying.

1743 Black bituminous Wood, brown and delicately fibrous in the middle.

Rem. This is ſaid to lay quite the undermoſt.

1744 Yellowiſh white indurated, here and there reddiſh, Lithomarga; from Drauſendorf.

Leſke, S. 490.

1745 The ſame, of a brick red colour; from the ſame place.

1746 Reddiſh brown Argillaceous Iron Stone; from the ſame place.

1747 Specular Iron Ore of extremely fine granular diſtinct concretions, which again form ſmall and round granular ditto.

β. Reiberſdorf.

1748 Light yellowiſh grey Tripoli.

Leſke, S. 495.

1749 The ſame, penetrated with more Iron Ochre.

1750 Yellowiſh grey indurated Clay, traverſed with Iron Ochre and with inlaying Quartz grains.

Leſke, S. 496.

1751 Yellowiſh brown indurated Clay, with vegetable roots ſtill inlaying.

1752 A Quartz fragment, which is found there in the Clay Pit.

1753 Coarſe Ironſhot Sand moderately compacted.

1754 A part of a large Baſalt boulder; from Steinberg.

Rem. A coarſe-grained Granite fragment reſembling that at Landskrone lays in this.

1755 Schiſtoſe Porphyry with a good deal of inlaying Felſpar; from the loweſt head of Steinberg.

Leſke, S. 496.

1756 The ſame of a lighter grey colour, with leſs, but ſlightly decompoſed Felſpar; from an higher head.

1757 The ſame, very rich in Felſpar, however this as well as the baſis is decayed; from the higheſt head.

Leſke, S. 497.

1758 Coarſe-grained a little ſlaty Granite; from Gikkelsberg.

Leſke, S. 497.

1759 Greyiſh black tolerably ſolid Baſalt, with much diſſeminated Chryſolite; from the ſummit of it.

1760 Ironſhot Sandſtone, wherein iſolated coarſe-grained Quartz pebbles occur; from Strassenberg.

Leſke, S. 508.

1761 Small-grained in like manner Ironſhot Sandſtone; from Kalkberg near Lüttendorf.

Leſke, S. 509.

1762 The ſame, with much intermixed ſmall-grained Limeſtone; from the ſame place.

1763 A pebble of Schiſtoſe Porphyry; from the ſmall Kamme.

Leſke, S. 510.

1764 Small-grained Sandſtone with inlaying coarſe grains; from Kelchstein.

Leſke, S. 511.

1765 Coarſe-grained Sandſtone; from Oybin.

Leſke, S. 512.

1766 Very ſpongy ſmall-grained Sandſtone; from the ſame place.

1767 The ſame, mixed with much red Iron Ochre; from the ſame place.

1768 Sandſtone with iſolated coarſe Quartz grains, which give it the appearance of a Breccia; from the Mill near Oybin.

1769 A fine-grained Limeſtone which almoſt ſeems to graduate into Hornſtone, with numerous inlaying ſmall petrifactions, ſome of which ſeem to be Tellinites.

1770 The ſame, with impreſſions of Pectinites.

1771 A coarſe-grained Quartz Breccia; from Töpferberg.

Leſke, S. 512.

1772 Decompoſed Schiſtoſe Porphyry; from the village of Hayn.

Leſke, S. 513.

1773 A piece of Baſalt, of a rather light greyiſh black colour, with decompoſed Chryſolite; from Johannestein.

Leſke, S. 514.

1774 Tolerably ſtraight ſlaty Schiſtoſe Porphyry; from Ilmenstein.

Leſke, S. 514.

1775 Coarſe-grained Quartzy Sandſtone; from the Weiſenſtein of Johnsberg.

Leſke, S. 516.

1776 Very Ironſhot, partly brown, partly grey Sandſtone; from Haberberg.

Leſke, S. 516,

1777 Decompoſed Schiſtoſe Porphyry; from the Weſt ſide of the Mountain.

Leſke, S. 517.

1778 Solid Schiſtoſe Porphyry of a very dark leek green colour; from the peak of Johnsberg.

1779 Schiſtoſe Porphyry of a yellowiſh brown colour ſomewhat inclining to greyiſh, the baſis of which is very like Pitchſtone.

1780 A ſeparate ſmall ſplintery dark grey ſpotted Slate of Schiſtoſe Porphyry; from the ſame place.

1781 Unequally granular Sandſtone; from Kellerberg.

Leſke, S. 518.

1782 The ſame with exceeding large grains, filled up by Iron Ochre; from the ſame place.

1783 Very porous Sandſtone.

Leſke, S. 518.

1784 The ſame, only not ſo uniform in the grain; from the ſame place.

1785 Coarſe-grained Sandſtone, in ſome parts porous, in others with impreſſions of Pectinites; from the ſame place.

1786 Baſalt, with a good deal of Hornblende and ſome little inlaying Chryſolite; from the Northern ſide of Kellersberg.

Leſke, S. 317.

1787 A piece of Baſalt, mixed with very much Hornblende and a little Calcareous Spar; from the ſame place.

1788 Ironſhot and alſo porous Sandſtone; from the red ſplintery Rock of Rabenstein.

1789 The ſame, in ſome parts traverſed with red Iron Ochre; from the ſame place.

1790 Very compact Baſalt, with ſome inlaying Hornblende and very much Chryſolite; from Blizzenberg, found as a Boulder.

1791 Moderately thick ſlaty Schiſtoſe Porphyry, which ſtands contiguous there in fixed Rocks; from the ſame place.

1792 Greeniſh grey Fuller's Earth; from Hohlstein.

Leſke, S. 520.

1793 Fine-grained yellowiſh grey Sandſtone; from between Buchberg and Rabenstein.

1794 Extremely fine-grained Sandſtone, with adhering coarſe-grained; from the Natterstein near Buchberg.

1795 Fine-grained greyiſh white Sandſtone; from the lower Buchberg.

Leſke, S. 520.

1796 Large-grained Granite, which is ſomewhat ſlaty; from Butterberg.

1797 The ſame, ſtill more ſlaty, and the Quartz of a rather dark ſmoke grey colour; from the ſame place.

1798 The ſame, ſomewhat decayed and Ironſhot; from the ſame place.

1799 Small-grained ſomewhat Ironſhot Sandſtone; from Neuwaltersdorf.

Rem. This is the kind lays uppermoſt.

1800 The ſame Foſſil, only more ſolid and much more Ironſhot; from the ſame place.

Rem. This lays in the middle.

1801 Yellowiſh grey but ſlightly Ironſhot Sandſtone; from the ſame place.

Rem. This lays lowermoſt.

1802 Rather coarſe-grained Sandſtone.

1803 Light ſmoke grey tolerably fine ſplintery Ironſhot Quartz; from the foot of Hellenberg, where formerly a Gallery had been driven in.

1804 Fine-grained greyiſh white Sandſtone; from the upper working place on Hellenberg.

Leſke, S. 521.

1805 The ſame, only very little coarſer, and here and there Ironſhot; from the ſame place.

1806 Small-grained in ſome degree porous Sandſtone; from the Old Stone Quarry.

1807 Very Ironſhot ſlightly porous Sandſtone.

1808 An extraordinarily beautiful petrified heart muſcle in Sandſtone.

1809 A part of Baſalt boulder with a good many large pores, which in ſome places are filled with cubic cryſtallized Zeolite; the whole of a reddiſh brown colour, and thickly mixed with ſmall Hornblende Cryſtals; from the Lausche.

Leſke, S. 522.

Rem. This entirely reſembles the Fulda Baſalt from the *Crater at Euben.*

1810 Schiſtoſe Porphyry ſtrongly inclining to Mountain green, conſiſting of ſmall granular roundiſh diſtinct concretions; from the higheſt ſummit of the Lausche.

1811 Very compact coarſe ſplintery Schiſtoſe Porphyry, ſomewhat reſembling Praſium in its baſis; from the Hikkelstein.

Leſke, S. 523.

1812 Small-grained Granite; from the foot of the Dreiekstein.

1813 Schiſtoſe Porphyry, of the ſame ſort as No. 1810; from the top of the Dreiekstein.

1814 Fine ſplintery very firm Schiſtoſe Porphyry; from the Waltersdorf Buchberg.

1815 A part of a Baſalt boulder whoſe baſis ſomewhat approaches to Hornſlate, abundantly interſperſed with beautiful Zeolite and cryſtallized Hornblende; from the Eaſtern declivity of the Unglükstein.

1816 A ſimilar piece, with numerous Hornblende Cryſtals exteriorly only, internally on the contrary it is almoſt quite compact; from the ſame place.

1817 A ſimilar piece of Baſalt, wherein extremely numerous Hornblende Cryſtals lay, and white dots are obſervable which almoſt ſeem to be decompoſed Felſpar, but what is moſt worthy of obſervation in it is, that the baſis verges ſtill more ſtrongly on Hornſlate than in the preceding ſpecimens; from the ſame place.

1818 A perfect intermediate Foſſil between Baſalt and Hornſlate, with inlaying cryſtallized Hornblende; from the Eaſtern ſummit of the Unglükstein.

Leſke, S. 523.

Rem. This ſpecimen is exceedingly remarkable, ſince it induces moſt Geologiſts to conſider the Schiſtoſe Porphyry (or Hornſlate) as belonging to the Primæval Rocks.

1819 A very decayed porous Baſalt fragment, which lay between the ſolid layers, and is called Lava ſlag.

Leſke, S. 524.

1820 A piece of Hornſlate, which in like manner is interſperſed with very numerous Hornblende Cryſtals, and beſides comes very near to Baſalt; from Ortsberg.

Leſke, S. 524.

1821 A perfectly ſimilar piece; from Silverberg.

1822 A much brighter coarſe ſplintery Schiſtoſe Porphyry, with a good deal of inlaying Felſpar; from Steinberg.

Leſke, S. 525.

1823 Rather darker Schiſtoſe Porphyry, with abundant but ſmall-grained inlaying Felſpar; from Reſchersberg.

1824 A piece of Baſalt, which on the other hand ſlightly approaches to Schiſtoſe Porphyry; from the Kaltenstein.

Leſke, S. 526.

Rem. The Baſalt is very compact, contains not much Hornblende and is on the whole thick ſlaty.

1825 Brick red Ironſhot indurated Clay; from Bertsdorf.

Leſke, S. 535.

1826 Decayed yellowiſh grey Baſalt with a good many inlaying Hornblende Cryſtals; from the Hill beſide Lower Bertsdorf.

1827 A piece of ſpheroidal Baſalt; from the Village itſelf.

1828 Coarſe-grained pretty much decompoſed Granite which is very rich in Felſpar and Mica; from Ameisenberg.

Leſke, S. 526.

1829 Tolerably bright grey, though firm, Schiſtoſe Porphyry with little Felſpar, but through which an exceeding narrow ſlip of indurated Lithomarga traverſes in the manner of a vein; from the Kautsche.

1830 Tolerably dark grey Schiſtoſe Porphyry which reſembles Baſalt, but with much inlaying Felſpar and fine-grained diſſeminated Mica; from Scheibenberg.

Leſke, S. 527.

1831 Somewhat decompoſed Baſalt which however is not porous, but only ſofter than uſual; from the foot of the Breitberg.

Leſke, S. 528.

1832 Rather lighter yellowiſh grey Schiſtoſe Porphyry, with very much inlaying Felſpar; from the Hainewald Huthberg.

Leſke, S. 528.

1833 Tolerably firm Schiſtoſe Porphyry, with much ſmall grained Felſpar and much Hornblende; from the Hainewald Buchberg.

1834 A piece of the ſame Foſſil of a rather darker colour, and with more fine-grained intermingled Felſpar; from the ſame place.

1835 A piece of Schiſtoſe Porphyry in which more Hornblende than Felſpar occurs; from the ſummit of it.

1836 The ſame, of a thick ſlaty fracture and with leſs Hornblende; from the ſame place.

1837 Dark black Baſalt, with very numerous Chryſolite grains and ſome inlaying Hornblende; from the higheſt point of the ridge of Mountains between the Huth and Breit Mountains.

1838 A piece of very firm Baſalt, of a thick ſlaty fracture on the whole, found there as a boulder.

1839 Fine-grained Granite, of a conſiderably ſlaty appearance; from the Mandau Gallery.

1840 Dark ſmoke grey Schiſtoſe Porphyry with much inlaying Felſpar; from the Goldberg beſide Groſs-Schönau.

Leſke, S. 529.

1841 Somewhat decompoſed Schiſtoſe Porphyry with but little Felſpar, ſome inlaying Martial Pyrites and with ſuperficial Iron Ochre in the rifts; from the ſame place.

Rem. This ſtone is evidently near to the courſe of the vein, and therefore is ſo decompoſed.

1842 Schiſtoſe Porphyry with much inlaying Felſpar, and alſo diſſeminated, in ſome places black, Mica; from the Groſs-Schönau Huthberg.

1843 The ſame, only ſomewhat more decompoſed; from the ſame place.

1844 Dark greeniſh grey Schiſtoſe Porphyry of coarſe and round granular diſtinct concretions; from the ſummit of Reuligsgrund.

1845 Somewhat druſy yellowiſh white Quartz; from the Weiſsenſtein there.

1846 The ſame Foſſil, ſtill mor[illegible]nſhot in the rifts; from the ſame place.

1847 Extraordinarily Ironſhot druſy Quartz, in which it is worthy of remark, that in the groupes and on the rifts, a ſimilar bluiſh and milk white overcaſt occurs, as is frequently the caſe in Baſalt, and may alſo be obſerved here.

1848 Tolerably dark blackiſh grey Schiſtoſe Porphyry; from the Forst.

1849 A piece of decayed Baſalt, from Hockstein.

1850 Dark ſmoke grey Schiſtoſe Porphyry, with a coarſe ſplintery fracture, and no remarkable quantity of inlaying Felſpar; from the weſtern peak of it.

1851 A piece of decayed Baſalt of a lavender blue colour; from the foot of the Kunnersdorf Hoſeberg.

1852 The ſame ſomewhat more compact, of a bluiſh grey colour; from the ſame place.

1853 A part of a Baſalt boulder whoſe baſis ſomewhat approaches to Hornſlate, and wherein much Hornblende is intermixed; from the ſame place.

1854 Tolerably firm Baſalt of coarſe granular diſtinct concretions, with ſome inlaying Chryſolite; from the Rock of the Hoſeberg itſelf.

1855 A piece of Baſalt of large granular diſtinct concretions, which alſo ſlightly verges to Schiſtoſe Porphyry; from the Odewiz Spitzberg.

Leſke, S. 531.

1856 A Tetrahædral columnar diſtinct concretion of Schiſtoſe Porphyry; from the ſummit of Spitzberg.

1857 The ſame Foſſil, with a good deal of ſmall-grained Felſpar and fine-grained intermixed Hornblende; from the Stumpſenberg.

Leſke, S. 532.

1858 Greyiſh white Potter's Clay; from Niederekkertsberg.

Leſke, S. 536.

1859 The ſame, more Ironſhot and ſandy; from the ſame place.

Rem. This comes very near to Tripoli.

1860 The ſame Foſſil, with adhering Quartz grains cohering ſo as to form a ſpongy Sandſtone; from the ſame place.

γ. *Cloſe to Zittau itſelf.*

1861 A very beautiful fine greyiſh white Potter's Clay; from Kummersberg cloſe by Zittau.

1862 Indurated Clay of a browniſh red colour, which graduates into Argillaceous Iron Stone, with numerous inlaying fragments of Bruſhwood perfectly changed to Clay; from the ſame place.

1863 A piece of bituminous Wood; from the ſame place.

1864 Strongly decayed Schiſtoſe Porphyry, wherein the Felſpar decayed to Porcelain Earth is ſtill diſcernible, and in which Quartz grains occur; from the ſame place.

1865 A boulder of large-grained Granite which graduates into Gneiſs; found on the other ſide of Zittau.

n. n. Hernhuth.

1866 A piece of decompoſed ſomewhat ſpheroidal Baſalt; from the Hitchendorf Steinberg.

Leſke, S. 540.

1867 Greyiſh black ſolid Baſalt, with ſome diſſeminated Chryſolite; from the Stone Quarry in this Mountain.

Leſke, S. 539.

1868 The ſame Foſſil, with very much inlaying Hornblende, as alſo more Chryſolite; from the ſame place.

1869 A conic fragment of Baſalt, with a large aperture in which much decayed Chryſolite may ſtill be obſerved; from the ſame place.

1870 Baſalt perfectly decayed to a greeniſh grey Wacke, which is ſaid to lay there between the firm Baſalt.

1871 The ſame, with a large quantity of the inlaying white kind of Stone which Leſke mentions.

1872 A ſmoke grey Flint pebble; from the Sand-beds at he bottom of the Hill.

Leſke, S. 540.

1873 A piece of Baſalt of coarſe granular diſtinct concretions, and very little Chryſolite; from Waldberg.

Leſke, S. 541.

1874 Tolerably dark grey Schiſtoſe Porphyry, interſperſed with delicate Felſpar grains; from Konigsholz.

Leſke, S. 543.

1875 A Baſalt boulder, wherein the Chryſolite is exceeding finely diſſeminated and ſeems to be very much decayed; from the Groſsberg.

1876 A large piece of yellowiſh brown, ſtill viſibly priſmatic, perfectly decayed Baſalt; from the Sand-pit beſide Hernhuth.

1877 The ſame, tho' not decompoſed in ſo high a degree, of a tolerably pearl grey colour; from the ſame place.

1878 The ſame, exteriorly yellowiſh brown, internally pale ſmoke grey; from the ſame place.

1879 Separate ſmall fragments of this Foſſil, in which the exterior ſhell ſuffers itſelf to be peeled off and appears perfectly like Wacke, therefore on the ſubject of its origin from the decay of Baſalt, no doubt can any longer be entertained.

1880 Somewhat decompoſed coarſe-grained Granite, very rich in Felſpar.

Leſke, S. 544.

1881 The ſame, of a more ſlaty texture; from the ſame place.

1882 Rather ſmaller-grained Granite, with much greyiſh blue Quartz; from the weſt ſide of it.

1883 The ſame, with much druſy Ironſhot Quartz; from the north-weſt ſide.

1884 Dark yellowiſh grey Sand; from the Hernhuth Sandpit.

Leſke, S. 544.

1885 Greeniſh grey coherent fragments of an unctuous Earth, and of a glimmering appearance, which is found in this Sand.

Rem. This alſo ſeems to originate merely from the Baſalt.

1886 Very Ironſhot coherent Sand, which ſurrounds an entire Iron Nodule; from the ſame place.

1887 A Granite boulder, from this ſide of Hernhuth.

Rem. It appears almoſt perfectly ſimilar to that which occurs in the Baſalt, deſcribed a good way above.

1888 Granite wherein a large quantity of yellowiſh grey Quartz occurs; from the weſtern foot of Heinricksberg.

1889 A variety of another Granite, with much bluiſh and yellowiſh white Felſpar, pale ſmoke grey Quartz, and a little Mica; from the ſame place.

1890 A piece of Granite wherein both the preceeding varieties occur together, and are viſibly ſeparated from one another; from the ſame place.

1891 A decompoſed white Foſſil which Leſke called Porphyry, but it ſeems to me to be no other than a decayed Granite very rich in Felſpar, with adhering Argillite; from the ſame place.

1892 Greeniſh grey very Ironſhot Argillite, interſected by a ſlip of Quartz.

1893 Dark greeniſh grey Fuller's Earth, which here again manifeſtly originates from the Baſalt.

1894 The ſame, much browner and more unctuous, therefore liker to Bole; from the ſame place.

1895 Ironſhot Granite; from Petersgrund there.

Leſke, S. 545.

1896 A curved Lamellar ſomewhat decayed Baſalt fragment, which reſts upon Granite; from the ſame place.

1897 Decompoſed Baſalt, wherein alſo the Chryſolite is decayed completely to Iron Ochre; from Huthberg.

Leſke, S. 546.

1898 Small fragments of a genuine Bole, into which the Baſalt has been tranſmuted.

1899 The ſame ſtill more crumbling unctuous Earth; from the ſame place.

1900 An entire concretion of this decayed Baſalt, wherein alſo a ſomewhat columnar form may be recogniſed, and to which Granite immediately ſucceeds, which by no means lays merely looſe upon it, but is firmly united with it, is alſo juſt as much decompoſed as the Baſalt, and in which the Felſpar exhibits all the properties of Porcelain Clay, but no veſtige of fuſion; from the ſame place.

1901 An externally very porous, in general pretty much decayed, Baſalt fragment; from this vicinage.

o. o. *Löbau.*

1902 An extremely ſingular ſomewhat decompoſed Foſſil, which comes neareſt to Argillite, but exhibiting a kind of granular diſtinct concretions which are formed by a delicate and ſtellularly diverging fibrous fracture; from Rükkersdorf near Hernhuth.

1903 A piece of Baſalt, in which beſide the Hornblende, very much Felſpar which is ſtill quite undecayed and poſſeſſing its perfect luſtre occurs; from the Löbau Mountain.

1904 Another pretty much allied to the foregoing coarſe-grained Foſſil, which conſiſts of much Hornblende, yellowiſh white inclining to greyiſh conchoidal nearly tranſparent Quartz, and ſome decompoſed Felſpar; from the ſame place.

Rem. I conſider it as a variety of Sienite.

p. p. Bauzen.

1905 Bituminous Wood with inlaying Martial Pyrites; from Selschwiz.

1906 The ſame, with an extraordinary quantity of for the moſt part decompoſed Hepatic Pyrites; from the ſame place.

1907 A piece of coarſe-grained Granite, with pale reddiſh white Felſpar; from Bauzen itſelf.

IV. AFRICA.

1908 A very beautiful piece of yellowiſh white, cheſnut brown and greeniſh grey annulated, and a little black figured, Egyptian Jaſper; from the vicinity of Suez.

1909 A ſimilar more angularly ſtreaked piece, with delicate dendritic delineations; from the ſame place.

END OF THE GEOGRAPHICAL COLLECTION.

rough triangular Quartz, and some rectangular Feldspar, from the same place.

1905 Isabelline Wacke, with [illegible] crystals.

1906 The same, with an extraordinary quantity of the small part decomposed [illegible] Pyroxene, from the same place.

1907 A piece of small-grained Granite, with red and white Feldspar, from Pompey's Pillar.

1908 A very beautiful piece of [illegible], in yellow, chestnut brown and greenish-grey shadowed, with little black dots, Egyptian Jasper, from the vicinity of Thebes.

1909 A singular stone, angularly streaked [illegible], with [illegible], from the same place.

END OF THE [illegible] COLLECTION.

ŒCONOMICAL COLLECTION.

ŒE.

V.

ŒCONOMICAL COLLECTION.

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FIRST CLASS.

MINERALS WHICH ARE EMPLOYED FOR DOMESTIC PURPOSES.

1. *FOR STONE BUILDINGS.*

1 Smoke grey durable Baſalt; from Bockenheim near Frankfurt on the Main.

2 Greyiſh white only here and there a little Ironſhot Sandſtone; from Lahnberg near Marpurg.

3 Reddiſh grey ſimilar Sandſtone, which is more Ironſhot and not ſo ſerviceable; from the ſame place.

2. *FOR MORTAR.*

4 Terras, from Andernach.

5 Grey pulveriſed Terras; from another place on the banks of the Rhine.

6 Grey compact Limeſtone with petrifactions; from Thuringia.

Rem. This mixed with much Sand, affords a good Mortar.

3. *FOR ROOFING.*

7 Greyiſh black very thin ſlaty Argillite; from Lehsten near Saalfeld.

4. *FOR PLASTERING.*

8 Yellowiſh grey foliated Gypſum; from Eisleben.

5. *FOR FLOORING.*

9 A piece of broad foliated Gypſum; from the ſame place.

6. *FOR PAVING.*

10 Undulatingly ſlaty Gneiſs, with a very large proportion of Quartz; from Lösniz near Freiberg.

11 Compact blackiſh grey Baſalt, with very little intermixed Hornblende; from Upper Lusatia.

7. *FOR LAND-MARKS AND CORNER PILLARS.*

12 A piece of a large Baſalt column, with a little intermixed Chryſolite; from the ſame place.

8. *FOR REPAIRING ROADS.*

13 Very firm greyiſh black Baſalt, with a little intermixed Zeolite; from the Cauſeway near Cassel.

14 Reddiſh brown Baſalt, with numerous ſmall Zeolite groupes and inlaying Hornblende Cryſtals; from Fulda.

Rem. This is not near ſo good as the former for this uſe.

9. *FOR*

9. *FOR THE AMELIORATION OF ARABLE LAND AND MEADOWS.*

15 Yellowiſh grey compact Limeſtone; from Thuringia.

16 Yellowiſh white burned and afterwards ſlaked Lime, as it is ſtrewed over the fields in Thuringia.

17 A ſimilar ſort ſomewhat more inclining to reddiſh, wherein are alſo ſmall grains; this is alſo probably more Ironſhot and therefore not ſo uſeful; from Leptiz.

18 Greyiſh white granular Limeſtone with Dendritæ; from Upper Luſatia.

Rem. This is not ſo ſerviceable for manure.

19 Pulveriſed ſimilar Limeſtone.

20 Yellowiſh grey foliated Gypſum; from Eisleben.

21 Yellowiſh grey fibrous Gypſum; from Bottendorf.

22 Slightly burned ſimilar Gypſum,

23 Gypſum burned perfectly to Paris plaſter and ground to powder; from Thuringia.

24 Striated Gypſum of a yellowiſh white colour, which has depoſited on the thorns of a *Houſe of gradation;* from Durrenberg.

25 Gypſum of a greyiſh white colour, without any remains of the thorns, and having apparently loſt in ſome places its water of cryſtallization.

Rem. It is employed there with great advantage for the improvement of land.

26 Broad foliated mixed with much granularly foliated Gypſum; from Eisleben.

Rem. At Ilmenau this is employed very advantageouſly as a manure, as Voigt reports.

27 Pulveriſed Baroſelenite; from the Kurprinz near Freiberg.

Rem. It is indeed not nearly ſo good as Gypſum, but yet is ſerviceable in rich ſoils.

28 Smoke grey indurated very Calcareous Marle; from Eisleben.

10 a. *FOR FUEL.*

29 Pitch Coal upon ſlaty Coal; from Wettin.
30 Clove brown bituminous Wood; from Beuchliz.

10 b. *FOR BLACKING STOVES.*

31 a A piece of Graphite.

11. *FOR FLINTS.*

31 b Dark ſmoke grey Flint; from Lithuania.
32 Yellowiſh grey Flint; from Champagnè.

12. *FOR THE PREPARATION OF FOOD AND DRINK.*

33 Potſtone, from Norway.

Rem. It is not much ſuperior to the Swiſs.

13. *FOR WRITING SLATES.*

34 Greyiſh black Argillite; from Bareuth.

14. *FOR CATTLE.*

35 Greyiſh white Rock Salt; from Wielizca in Gallicia.

SECOND

SECOND CLASS.

FOSSILS WHICH ARE WORKED, WROUGHT, OR IN ANY MANNER EMPLOYED IN MANUFACTURES, ARTS OR TRADES.

1. *FOR STATUARY AND STONE-CUTTING.*

36 Quite fine-grained white Limeſtone; from Krotendorf in the Erzgebirge.
37 Small-grained yellowiſh Limeſtone; from Grünhain.
38 Fine-grained yellowiſh Sandſtone; from Pirna.

2. *FOR TURNED AND CARVED WORK.*

39 Greyiſh white Steatites; from Bareuth.
40 An Idol of Chineſe Steatites.
41 Dark green Serpentine with Garnets; from Zöbliz.
42 Indurated Talc; from Saxony.
43 Variegated Lithomarga; from Zwickau in Saxony.

3. *POLISHED STONE WORK.*

a. *Marble.*

a. a. *Common Marble.*

a. *Nearly of a ſingle colour.*

44 Extremely fine-grained bright white Limeſtone; from Krotendorf.
45 Fine-grained but a little darker Limeſtone, poliſhed for Marble; from Grünhain.
46 Extremely pale greyiſh white Marble, here and there ſprinkled with green; from Kalkgrün in Saxony.
47 The ſame, very ſlightly ſtreaked with greeniſh grey; from the ſame place.

48 Rather darker greyiſh white Marble which is alſo ſomewhat coarſe-grained; from the ſame place.
49 Pale yellowiſh grey Marble; from Norway.
50 Another, but much coarſer grained and therefore inferior; from Bareuth.
51 Tolerably dark yellowiſh grey Marble; from Norway.
52 Ochre yellow Marble marked very ſlighty with Dendritæ; from Italy.
53 Very indifferent Green Marble; from Norway.

Rem. This is properly a Steatites but is employed there as Marble.

54 Browniſh red Marble.

β. *Variegated Marbles.*

55 Reddiſh and bluiſh, grey and white, the latter in abundance, ſtreaked Marble, with adhering Ironſtone; from Carlsbad in Bohemia.

Rem. The whole is nothing but Calcareous Sinter.

56 Bright and greyiſh white Marble, ſpotted with purple red; from Florence.
57 Yellowiſh and greyiſh white Marble ſpotted with brown; from Bareuth.
58 A ſlab of Florentine Ruin Marble.
59 Yellow Marble, ſpotted with brown and whitiſh, and ſlightly veined with grey; from Würtemberg.
60 A very beautiful Marble ſhaded with greyiſh and yellowiſh white, and veined with browniſh red; from Bareuth.
61 Iſabella yellow ſimilarly veined Marble; from the ſame place.
62 Iſabella yellow Marble with tolerably parallel ochre yellow veins, and extremely ſmall dendritic delineations; from Würtemberg.
63 A ſimilar, here and there rather dark veined, Iſabella yellow Marble.
64 Yellowiſh grey ditto, with dark and delicate ſpecks; from Bareuth.

65 Yellowiſh grey Marble with an ochre yellow narrow ſtripe; from Norway.

Rem. Too coarſe-grained to pleaſe the eye,

66 Yellowiſh grey reddiſh ſprinkled Marble of the ſame deſcription; from the ſame place.

67 Iſabella yellow Marble ſpotted with dark red; from Würtemberg.

68 Yellowiſh white Marble, ſhaded with red; from Norway.

69 Dark yellowiſh grey, rather dark brown ſhaded, Marble; from the ſame place.

70 Dark reddiſh brown Marble ſpotted with ochre yellow and white; from Italy.

71 The ſame with a little lighter ſpots and dots; from the ſame place.

72 Reddiſh brown yellowiſh ſpotted, very ſlightly dendritically figured Marble; from the ſame place.

73 From the reddiſh brown paſſing into honey yellow, on one ſide whitiſh ſtriped, Marble; from the ſame place.

74 Yellowiſh and red, as likewiſe white ſprinkled Marble; from the ſame place.

75 Yellowiſh Marble with grey and white fortification-like veins; from the ſame place.

76 Pearl grey, yellowiſh white and ochre yellow, partly ſpotted, partly veined, Marble; from the ſame place.

77 Ochre yellow, yellowiſh white and reddiſh white, ſtriped fortificationwiſe, here and there ſprinkled Marble; from the ſame place.

78 Brown, ochre yellow and yellowiſh white, partly ſtriped, partly ſprinkled Marble; from the ſame place.

79 Reddiſh brown, white veined and yellowiſh grey ſpotted Marble; from the ſame place.

80 Yellowiſh white, reddiſh brown and roſe red ſtriped and ſprinkled Marble of a beautiful appearance; from the ſame place.

81 Greyiſh and yellowiſh white, reddiſh ſprinkled, dark ochre yellow ſtriped Marble; from the ſame place.

Rem. This is interſected by a ſlip of fibrous Limeſtone.

82 Yellowiſh grey, ſmoke grey, white ſpotted, yellowiſh and reddiſh brown zoned Marble; from the ſame place.
83 Dark yellowiſh grey, ſomewhat white and brown ſhaded Marble; from the ſame place.
84 Yellowiſh brown, and a little red ſpotted and veined Marble; from the ſame place.
85 Reddiſh brown, wine yellow ſhaded Marble; from the ſame place.
86 Pearl grey, reddiſh white, reddiſh brown and browniſh red ſhaded and veined Marble; from the ſame place.
87 On one ſide, greyiſh, yellowiſh and reddiſh white, as alſo brown zoned, but on the other cochineal red ſprinkled Marble; from the ſame place.
88 Wine yellow and greeniſh grey, bright and dark brown as alſo carnation red zoned and veined Marble; from the ſame place.
89 Yellowiſh and reddiſh grey, carnation and browniſh red, as alſo brown ſpotted and veined Marble; from the ſame place.
90 Yellowiſh and reddiſh brown with intermixed yellowiſh white ſhaded Marble; from the ſame place.
91 Bright white, dark carnation red, as alſo reddiſh brown ſpotted and veined Marble; from the ſame place.
92 Yellowiſh and reddiſh white, blood red delicately veined Marble; from the ſame place.
93 Browniſh red, white veined Marble; from Lobengrün in Bareuth.
94 Reddiſh brown, pale greyiſh and yellowiſh white, partly ſtriped, partly veined, Marble; from Norway.
95 Reddiſh brown, white and yellow zoned fortification-wiſe, but in ſome parts ſpotted Marble.
96 Reddiſh brown, white ſpotted, dark brown and white, here and there veined Marble; from Ruſſia.
97 Carnation red and white ſhaded, delicately reddiſh brown veined, Marble; from the ſame place.
98 Rather paler carnation red and greyiſh white ſhaded Marble; from the ſame place.
99 Partly blood, partly browniſh red, grey white and greeniſh grey ſpotted Marble; from Blankenburg.
100 Reddiſh brown, greyiſh white, ſomewhat green and

very ſlightly blood red ſprinkled and ſpotted Marble; from the ſame place.

101 Pearl grey, greyiſh white and blood red ſpotted and ſprinkled beautiful Marble; from the ſame place.

102 Reddiſh brown, greyiſh white and olive green ſpotted Marble; from the ſame place.

103 Partly reddiſh brown, partly browniſh red, reddiſh white and olive green ſhaded and ſpotted Marble; from the ſame place.

104 Yellowiſh grey, greyiſh white, ſmoke grey and brick red with a little green, ſpotted, ſhaded and veined Marble; from Scherdlas near Weidesgrün in Bareuth.

Rem. This piece is extraordinarily beautiful.

105 Browniſh red, yellowiſh grey ſhaded, a little greyiſh white ſpotted and exceeding delicately dark green veined Marble; from Kirch Gartendorf there.

106 Yellowiſh grey mixed with a little brown, greyiſh white ſtriped, and dark green very delicately veined Marble; from the ſame place.

107 Reddiſh brown, reddiſh and greyiſh white ſhaded Marble, very delicately veined with greeniſh, but broader with bright white, and in ſuch a manner that the latter veins interſect one another in the manner of mineral veins; from Lobengrün there.

108 Dark carnation red and yellowiſh grey ſhaded, greeniſh grey reticularly and very abundantly veined Marble; from the ſame place.

109 Reddiſh brown and ſhaded yellowiſh grey and greyiſh white veined Marble; from the Hartz.

110 Yellowiſh grey and ſmoke grey ſhaded, reddiſh brown, blood red, greeniſh grey and greyiſh white, partly ſpotted, partly veined Marble; from Blankenburg, as are alſo the following as far as No. 120.

111 Greyiſh white and ſmoke grey ſhaded, dark blood red and green ſprinkled and ſpotted Marble.

112 Greeniſh and ſmoke grey, as alſo browniſh red and greyiſh white ſpotted Marble.

113 Smoke and pearl grey, as alſo greyiſh white ſhaded, blood red ſprinkled, and greeniſh grey veined Marble.

114 Blood red, reddiſh white and yellowiſh white ſhaded, reddiſh brown and Mountain green ſpotted and veined Marble.

115 Yellowiſh grey and greyiſh white, as alſo ſomewhat greeniſh grey ſpotted and ſhaded, blood red ſpotted and ſprinkled Marble.

116 Pale ſmoke grey and greyiſh white ſhaded, reddiſh brown and olive green veined and ſpotted Marble.

117 Smoke grey and greyiſh white ſhaded, dark brown and very ſlightly blood red ſprinkled Marble.

118 Greyiſh white, ſmoke grey, and reddiſh brown, but irregularly ſprinkled Marble.

119 Greeniſh grey and reddiſh brown ſpotted Marble.

120 Yellowiſh brown ſmoke grey veined Marble.

121 Reddiſh brown, dark ſmoke grey, extremely delicately but abundantly veined Marble; from Lobengrün in Bareuth.

122 Greyiſh white, dark greeniſh grey veined, light blood red ſpotted, Marble; from Wurtemberg.

123 Smoke grey and white ſpotted, pale reddiſh veined Marble; from Ruſſia.

Rem. It is too coarſe-grained to be beautiful.

124 Reddiſh brown, very ſlightly white ſprinkled Marble; from Gothland.

125 Dark ſmoke grey, greyiſh white and yellowiſh grey ſhaded Marble; from Ruſſia.

126 Light ſmoke grey yellowiſh grey veined Marble; from Sherdlas near Widesgrün in Bareuth.

127 The ſame, partly ſpotted, partly veined; from Lohmar near Bernstein there.

128 Smoke grey ſomewhat yellowiſh ſhaded Marble, with dark veins; from Wöllattendorf near Hof at that place.

129 Greyiſh white a little bluiſh ſhaded Marble; from Schweſendorf near Regnizloſau there.

130 A little darker yellowiſh grey Marble, with ſtrong and delicate very abundant brown veins; from Trogenau near Hof there.

131 Dark ſmoke grey, yellowiſh ſpotted Marble, with delicate veins of Martial Pyrites; from Eichelberg near Hof.

132 Partly ſmoke, partly blackiſh grey and white veined Marble; from Italy.

133 Yellowiſh grey mixed with a little brown, dark brown

and white veined Marble; from the Hofer Stadtbruch in Bareuth.

134 Similarly ſhaded, white veined, and in one place red ſprinkled Marble; from Weidesgrün in Bareuth.

135 Smoke grey and yellowiſh grey ſhaded, but ſlightly white ſtreaked Marble; from Schubelhammer below Bernstein in that country.

136 Greyiſh black, extremely little white veined Marble; from Schwarzenbach.

137 The ſame with ſome more white veins; from the ſame place.

138 Greyiſh white, dark ſmoke grey ſhaded and veined Marble; from Blankenburg.

139 The ſame with fewer white and narrower dark ſtreaks; from the ſame place.

140 From the greyiſh white paſſing through ſmoke grey into greyiſh black, ſomewhat ſprinkled Marble; from the ſame place.

141 Smoke grey, wine yellow and browniſh black fortificationwiſe ſtreaked Marble; from Wurtemberg.

142 Greyiſh black white ſpotted Marble; from Blankenburg.

143 Yellowiſh grey, brown and white ſhaded, blackiſh grey ſprinkled Marble; from Norway.

144 Yellowiſh grey, greyiſh black ſpotted Marble, which ſpots however conſiſt of thick black veins; from Ruſſia.

145 Yellowiſh grey and greyiſh white ſhaded, blackiſh brown veined Marble; from Norway.

146 Smoke grey, greyiſh white ſpotted, greyiſh black and greeniſh grey ſprinkled Marble; from Elbingerode.

147 Greyiſh black, greyiſh white zoned Marble; from Ruſſia.

148 Dark bluiſh grey, greyiſh white ſhaded and ſtreaked Marble, with ſome few dots of Martial Pyrites; from the ſame place.

149 Smoke grey Marble, but barely ſhaded by greyiſh white; from Norway.

150 Yellowiſh grey, greyiſh white annulated Marble; from Saltpollen.

b. b. Lumachella.

151 Greyiſh black Lumachella with very few whitiſh ſhells; from Norway.

152 A very beautiful yellowiſh grey Lumachella, with large inlaying Ammonites.

153 A ſimilar Lumachella traverſed by a narrow ſlip of white granular Limeſtone.

154 Smoke grey, a little yellowiſh ſhaded Lumachella, with Belemnites and other yellowiſh brown Foſſil ſhells.

155 A ditto, with neat, minute, extremely abundant petrifactions.

156 Greeniſh grey ſomewhat yellowiſh grey ſpotted Lumachella.

157 A ſimilar ditto, but with ochre yellow ſprinklings.

158 Yellowiſh grey Lumachella with numerous ochre yellow ditto; from Leineck in Bareuth.

159 The ſame, with ſomewhat ſmaller but extremely numerous petrified ſhells.

160 Pale yellowiſh grey, ochre yellow ſhaded Lumachella; from Sonnenberg.

161 a Two large ſlabs of ſmoke grey, reddiſh ſhaded, white ſpotted Lumachella.

161 b Pale yellowiſh grey, reddiſh white ſpotted Lumachella, with an extraordinary quantity of ſhells.

162 Yellowiſh grey, ſomewhat greeniſh grey ſhaded, white and greyiſh black ſprinkled Lumachella; from Norway.

163 Yellowiſh grey, greeniſh grey and yellow ſprinkled ditto; from the ſame place.

164 Greeniſh grey, bluiſh grey ſhaded Lumachella.

Rem. The Lumachellas without any places aſſigned to them, are all from Cobourg.

b. Alabaſter.

165 White, pale grey, extremely ſlightly ſtreaked Alabaſter; from Italy, from whence likewiſe are all the following ſpecimens to No. 181.

166 The ſame, with darker and more numerous ſtreaks.

167 The ſame, on one ſide a little yellowiſh grey ſhaded, and pale grey veined Alabaſter.

168 Yellowiſh white, greyiſh white ſhaded, and ſomewhat darker veined Alabaſter.

169 A ſimilar Alabaſter, but ſtill darker and furniſhed with abundant veins.

170 Greyiſh white Alabaſter, furniſhed with numerous grey veins and broad ſtripes.

171 A large ſlab of yellowiſh white, very abundantly yellowiſh grey veined Alabaſter.

172 The ſame, with fewer narrow, than broad veins.

173 Similar Alabaſter, with very few delicate, but on the contrary very abundant broad veins.

174 Greyiſh white and yellowiſh grey ſhaded, dark ſmoke grey veined Alabaſter.

175 Greyiſh white, yellowiſh grey zoned Alabaſter.

176 A ſimilar narrower and more abundantly yellowiſh grey zoned Alabaſter.

177 Yellowiſh grey and greyiſh white alternately ſtreaked Alabaſter.

178 Bright white, dark yellowiſh grey ſlightly inclining to browniſh, veined Alabaſter.

179 Pale yellowiſh grey, ſmoke grey ſtriped and veined Alabaſter.

180 Yellowiſh grey, browniſh white and ſmoke grey ſtriped Alabaſter.

181 Yellowiſh grey, greyiſh black veined Alabaſter.

182 Greeniſh grey Alabaſter with very few dark ſtripes; from Cologne.

183 Yellowiſh grey, wine yellow and reddiſh ſpotted Alabaſter; from Italy.

184 Yellowiſh grey and greyiſh white ſhaded, ſmoke grey a little inclining to bluiſh veined, extremely fine-grained Gypſum; from Eisleben.

185 Greyiſh white fine-grained Gypſum, with a large quantity of ſmoke grey and ſmall-grained ditto; from Italy.

186 Wine yellow, coarſe and large granularly foliated Gypſum; from the ſame place.

Rem. On account of its large grain it is employed there as an Alabaſter.

c. *Agate.*

187 Milk white, a little bluiſh grey ſhaded Agate; from the Palatinate, from whence are alſo all the following ſpecimens to No. 197.

Rem. This is merely Calcedony.

188 Pearl grey, milk white veined Agate, ſimilarly circumſtanced.

189 Agate, whoſe nucleus is yellowiſh white, which paſſes into milk white, and through this, at the exterior part into bluiſh grey.

190 Milk white, bluiſh, ſmoke and yellowiſh grey, fortificationwiſe veined Agate, with adhering green Earth.

191 Yellowiſh white, milk white, and on the outer border, blood red annulated Agate.

192 Greyiſh white, violet blue, and quite at the outer edge, milk white annulated Agate.

Rem. Calcedony in Amethyſt.

193 Greyiſh white, pearl grey, and reddiſh brown veined and ſpotted, with extremely delicate red points, dotted Agate.

Rem. Conſiſts of Flint, Calcedony and Jaſper.

194 A ſimilar Agate, but mixed with more red, of the ſame conſtituent parts.

195 Milk white, exteriorly yellowiſh grey and bluiſh grey annulated Agate, furniſhed almoſt throughout with red dots.

Rem. Almoſt pure Calcedony, the dots excepted.

196 Milk white, yellowiſh annulated, exteriorly bluiſh grey bordered Agate, whoſe nucleus is dotted with red, but in other reſpects circumſtanced as the foregoing.

197 Blood red Agate with whitiſh half rings, but encircled exteriorly with yellowiſh grey.

Rem. Carnelian and Calcedony occuring in a Quartz groupe, are its conſtituent parts.

198 Greyiſh white, yellowiſh and reddiſh brown veined Agate; from the Halsbach near Freiberg.

199 Greyiſh and yellowiſh white, dark blood red ſpotted and ſtriped Coral Agate; from the ſame place.

200 Reddiſh brown, more or leſs dark ſhaded, greeniſh grey ſtriped Agate; from Gnandſtein.

Rem. Properly only Jaſper.

201 Yellowiſh and ſmoke grey very delicately veined Agate, interſected by a reddiſh zone; from Kemniz in Saxony.

Rem. Properly Woodſtone.

202 Bluiſh grey, yellowiſh white encircled Agate.

Rem. Merely Calcedony.

203 Milk white, encircled with a yellowiſh ring and afterwards ſurrounded with bluiſh grey, figured Agate.

204 Light honey yellow annulated, encompaſſed exteriorly with pearl grey, Agate, with a yellowiſh white nucleus.

Rem. Calcedony and internally Amethyſt.

205 Bluiſh grey and milk white ſhaded, on the one border blood red and browniſh red veined and ſprinkled, Agate.

Rem. Calcedony and Carnelian.

206 Greyiſh white, yellowiſh white, and browniſh red annulated Agate.

Rem. Quartz and Carnelian.

207 Light yellowiſh brown, reddiſh brown and reddiſh white ſhaded Agate.

208 Reddiſh brown, on the outer margin darker, greyiſh white encircled Agate.

Rem. Jaſper and Amethyſt.

209 Greyiſh white, milk white ſhaded, Ochre yellow annulated and ſomewhat blood red ſtriped Agate.

Rem. Amethyſt, Calcedony and Carnelian, all from No. 202 to this, are from Deux-Ponts.

210 Leek green red dotted Heliotropium, with adhering brown Jaſper; from Bohemia.

Rem. This is chiefly uſed as an Agate.

211 Yellowiſh brown, bluiſh grey ſpotted Agate; from the Palatinate.
212 Ochre yellow, greyiſh white veined Agate.
213 Yellowiſh and reddiſh brown ſhaded, milk white veined Agate; from Italy.

Rem. Jaſper and Calcedony.

214 Bright blood red, milk white ſpotted Agate; from the ſame place.
215 Blood red, ſmoke grey ſpotted Agate; from Hornburg.
216 Carnation red, pearl grey and greeniſh white ſhaded Agate, with greyiſh white ſpots; from Norway.
217 Bright and dark brown, greeniſh grey ſpotted Agate; from the Palatinate.
218 Liver brown, white and ſomewhat brown ſpotted Porphyry; from Saxony.

Rem. This alſo ſupplies the place of genuine Agate very well.

c. Other Poliſhed Ware.

219 Dark olive green, ſulphur yellow veined Serpentine; from Schönburg.
220 Olive green, black and yellowiſh grey ſpotted Serpentine; from Zöbliz.
221 Olive green, blackiſh green veined Serpentine; from Waldheim.
222 Somewhat brighter olive green, black and greyiſh white ſpotted Serpentine; from Zöbliz.
223 Bright olive green Serpentine, with large pale greeniſh grey ſpots; from the ſame place.
224 Somewhat darker olive green, dendritically figured, greeniſh white ſpotted and veined Serpentine; from the ſame place.
225 Olive green, greyiſh black and ſulphur yellow veined Serpentine; from Waldheim.
226 Leek green, blood and browniſh red veined Serpentine; from Eiſenberg at Hohenſtein.
227 Olive green, dark reddiſh brown ſpotted Serpentine; from Zellerwald.

228 Olive green, whitiſh veined Serpentine; from Zöbliz.

229 The ſame, mixed with ſomewhat more brown, and exceeding delicate white veins; from the ſame place.

230 Mountain green and black ſpotted and veined Serpentine; from the ſame place.

231 Very ordinary greeniſh grey Serpentine; from Grönland.

232 Blackiſh green, yellowiſh and reddiſh white ſpotted Serpentine, with ſome ſimilar veins; from Zöbliz.

233 Dark green, reflecting browniſh, Serpentine, with delicate red dots.

234 Dark brown Serpentine, with ſome ſhining dots; from Eiſenberg near Hohenſtein.

235 Serpentine of a brighter brown colour, with Pinchbec brown dots which ſeem to be Talc; from the ſame place.

236 Liver brown Serpentine, with darker veins and ſpots; from the ſame place.

237 Brighter brown Serpentine marked in the ſame manner; from the ſame place.

Rem. Theſe laſt five varieties are amongſt the rareſt.

238 Yellowiſh brown, black ſpotted and veined Serpentine; from the ſame place.

239 Yellowiſh brown, liver brown ſpotted Serpentine; from the ſame place.

240 Reddiſh brown, yellowiſh grey ſpotted, and blackiſh grey veined Serpentine; from Zöbliz.

241 Greeniſh grey, blood red and brown very beautifully veined and ſpotted Serpentine; from the ſame place.

242 Bright blood red, greeniſh grey ſpotted Serpentine; from the ſame place.

Rem. Both varieties are rare.

243 Dark Ochre yellow, browniſh black and greeniſh grey ſpotted Serpentine.

244 Very beautiful pearl grey, lavender blue, carnation red and reddiſh white veined, indurated Lithomarga, called Terra miraculoſa Saxoniæ.

245 Lavender blue, yellowiſh and reddiſh white ſpotted and veined ditto.

Rem. No. 244 ſhows the tolerable poliſh that this Lithomarga is ſuſceptible of.

246 A tablet of dark pearl grey white ſpotted ditto.
247 A tablet of pearl grey and Lavender blue ſhaded ditto; from Planiz near Zwickau.
248 Reddiſh grey poliſhed Steatites, with ſome dendritic delineations; from Bareuth.
249 A greeniſh grey very fine ſlaty poliſhed Argillite; from the ſame place.
250 A piece of pale ſmoke grey Flint, which was part of a cane head.
251 A necklace of large poliſhed Amber beads.
252 A piece of poliſhed hepatic Mercurial Ore, with an engraved coat of arms and a chain which doubtleſs ſerved to faſten it to a necklace; from Idria.

4. *FOSSILS EMPLOYED AS JEWELS.*

253 A brilliant-cut Chryſolite; from Ruſſia.
254 A quantity of Rubies; from Ceylon.
255 About a dram of Hyacinths; from the ſame place.
256 One and a half inch large dark crimſon red Garnet; from the ſame place.
257 A poliſhed Labradore Felſpar, reflecting Lazuli blue and Silvery white; from the Coaſt of the ſame name in America.

5. *FOR CASTING IN STUCCO AND BRONZING.*

258 Fine-grained ſmoke grey ſtriped Gypſum; from Eisleben.
259 Broad foliated Gypſum mixed with ſome granularly foliated; from Bottendorf.

6. *FOR VARIOUS COLOURS AND PAINTING.*

260 Yellow Earth, from Saxony.

261 A brick red indurated Bole-like Clay; from Upper Lusatia.

262 A ſimilar Clay of a browniſh red colour; from Oberneundorf.

7. *FOR WRITING AND DRAWING.*

263 A white Chalk, from the Engliſh coast.

264 Red Chalk or Reddle; from Bohemia.

265 Black Chalk, from Italy.

266 Graphite or Plumbago; from Dumfries in Scotland.

8. *FOR TILES.*

267 Tile Loam; from Wehrau in Upper Lusatia.

9. *FOR POTTERY.*

268 Greyiſh white Pipe Clay; from Tiefenfurth near Wehrau.

269 Very fine and beautiful reddiſh white Potter's Clay; from the ſame place.

270 A very Ironſhot indurated Clay which is not ſo ſerviceable; from Leipsic.

271 Grey indurated Clay, which contains ſtill more Sand; from Rothenburg in Hesse.

10. *FOR CRUCIBLES.*

272 A compound of Sand and much Mica, which is employed in Ruſſia in the fabrication of Crucibles.

11. *FOR PORCELAIN.*

273 Very fine reddiſh white Porcelain Clay; from Aue near Schneeberg.

274 An extremely fine, nearly pure white, Porcelain Clay; from Bornholm.

Rem. It ſerves for the manufacture of Porcelain at Copenhagen, particularly for figures and Biſcuit.

275 Another greeniſh white, which is intimately mixed with a much larger proportion of Talc, but notwithſtanding is very fine; from the ſame place.

Rem. This is employed for veſſels.

276 A Felſpar decompoſed to Porcelain Clay, in decayed Granite; from Meiſſen.

12. *FOR GLAZING.*

277 Calcined Felſpar; from Bornholm.

Rem. It approaches very much to Porcelain Clay, but is employed there only for Glazing.

278 The ſame, actually vitrified in the fire, melted to an excellent greyiſh white tranſparent glaſs.

13. *FOR COLOURING GLASS BLUE.*

279 Maſſive grey Cobalt Ore in Quartz; from Schneeberg.

Rem. This is as well on its own account as that of its mixture extremely acceptable to the ſmalt works; the Quartz is here almoſt perfectly free from Iron Ochre, which therefore gives it an higher value.

280 Coarſely diſſeminated white Cobalt Ore, with ſome grey Quartz; from the ſame place.

281 The ſame, in Quartz, which is mixed with much Argillite; from the ſame place.

Rem. On account of the Argillite this is much inferior, there is nothing wanting to render it completely uſeleſs but merely ſome Calcareous Spar or Baroſelenite.

282 Superficial Cobaltic germinations upon bituminous Marlite; from Mansfeld.

283 Four packages of Smalt ſamples, with the ſignatures OE. OE ges. OE ſt. OH. OS.

284 Six others with the following ſignatures MC. MCB. ME ges. MEB. MH. MS.

285 Smalts with the following ſignatures, FB. FCB. FE. FEB. FH. and FS.

286 Four packages of Smalt with the ſignatures FFC. FFE. FFH. FFS.

287 Two packages of Smalts, with the ſignatures FFFC. and FFFE.

Rem. Every merchant underſtands the tranſlation of theſe ſignatures, thoſe who deſire to become acquainted with them may conſult Lehman's Cadmiologia, 1 Th. S. 70.

14. *COLOURS PREPARED BY FIRE?*

288 Different ſamples of Indigo blue, together with one of woollen ſtuff, prepared by Mr. D. Vogel.

Rem. The account which Vogel had written of this is wanting.

289 Artificial Pruſſian Blue, which the elder Dr. Weiſſman is ſaid to have prepared from Soot, at Erlangen in 1741.

290 Different ſamples of Verdigris, by the before mentioned Vogel.

15. *FOR POLISHING POWDERS.*

291 Common white Chalk.

292 A compound of Magnetic Iron Ore, ſome Garnet and Mica; from Spain.

Rem. It is there uſed as Emery and conſidered as ſuch, as is alſo often the caſe in Germany.

293 Brown Garnet with diſſeminated Hornblende and ſome Martial Pyrites; from Saxony.

Rem. It performs the ſame ſervice,

294 Red Hæmatites; from Schneeberg.

16. *FOR THE DETRITION OF STONES.*

295 Two ſmall tablets of Saxon Lithomarga, which are uſed as is well known at Zöbliz in the grinding down of the Serpentine.

296 Five ſmall tablets of the ſo called Stone Clay; from Kemniz in the Erzgebirge.

Rem. They are for the moſt part indurated Clay or decompoſed indurated Porphyry.

297 Two tablets of red decompoſed Porphyry; from Gablent.

298 A ſimilar red and green ſpotted tablet; from Rothloſ.

299 A very micaceous ſimilar Ochre yellow tablet; from Euba.

300 Three tablets of Argillite with oblong ſpots; from Rochliz, there called Hornſlate.

17. *FOR LEVIGATING?*

301 Serpentine, from Waldheim.

302 Light olive green Serpentine with inlaying Garnets; from Zöbliz.

303 Blood red Serpentine; from the ſame place.

18. *FOR MILL-STONES.*

304 Yellowiſh and reddiſh grey fine-grained Sandſtone; from Marburg.

19. *FOR FLOORS OF STAMPING MILLS?*

305 Firm Schiſtoſe Porphyry; from Upper Luſatia.
306 Very firm Baſalt with inlaying Hornblende; from the ſame place.

20. *FOR TOUCHSTONES.*

307 Yellowiſh grey common ſilliceous Schiſtus; from Wurtemberg.

Rem. It is ground for the purpoſe and has actually been uſed as ſuch evidently, Baſanite is ſtill better for this purpoſe.

21. *FOR SMEARING MACHINES.*

308 Plumbago; from Scotland.

22. *FOR TAKING OUT GREASE AND FULLING.*

309 Greeniſh grey Fuller's Earth; from England.
310 A ditto, very fine yellow and roſe red ſtreaked; from France.

Rem. This is properly a very fine indurated Clay, approaching to Lithomarga.

311 Yellowiſh grey Fuller's Earth; from Roſswein.
312 The ſame ſomewhat darker, and as it appears mixed with more Sand, therefore leſs uſeful; from the ſame place.

23. *FOR TANNING.*

313 Compact Limeſtone with petrifactions; from Jena.

24. *FOR DYING.*

314 A piece of Alum.

25. *FOR*

25. *FOR FIRE WORKS.*

315 A piece of cane Sulphur; from Geier.

26. *FOR THE MATERIA MEDICA.*

316 A piece of Alum.
317 Mercury ſublimate, 1 grain.
318 Twelve round tablets of the ſo called Terra Sigillata.

27. *FOR THE BLEACHING OF LINEN.*

319 A piece of Mineral Coal; from England.
320 Deſulphurated Mineral Coal; from the ſame place.

28. *FOR CLOTH AND PAPER.*

321 Amianthus; from Ruſſia.
322 Different ſamples of Stone Paſteboard and Stone Paper; from Hungary.

THIRD CLASS.

MINERALS FROM WHICH METALS, SALTS, &c. ARE PREPARED.

A. *METALS.*

I. *FOR OBTAINING GOLD.*

323 Diſſeminated Native Gold with auriferous Blende and Galena; from Hungary.
324 Vitreous Silver Ore which contains Gold, in Quartz; from the ſame place.
325 Auriferous Copper Pyrites, with ſome Blende in Quartz; from the ſame place.

Rem. In this alſo, very finely diſſeminated Native Gold is obſervable.

326 Auriferous Copper Pyrites with ſparry Iron Ore in Hornſtone; from the ſame place.

327 Cryſtallized auriferous Martial Pyrites, upon Porphyry; from the ſame place.

328 Maſſive ditto, mixed with Blende leſs rich in Gold; from the ſame place.

329 Maſſive and coarſely diſſeminated auriferous Martial Pyrites in Argillite; from Saltzburg.

330 Auriferous compact brown Ironſtone with Quartz; from Catharinenburg in Siberia.

331 Gold Sand; from the Rhine.

332 Yellow Gold Sand; from Silesia.

2. *FOR OBTAINING SILVER.*

a. The Minerals themſelves.

333 Native Silver with ſome vitreous Silver and a little intermixed Hornſtone; from Schneeberg.

334 Capillary Native Silver, a little brown ſuperficially; mixed with vitreous Silver Ore and a good deal of Quartz; from the ſame place.

335 Antimoniated Silver Ore with Copper Pyrites in a ſomewhat earthy Quartz; from Kremniz in Lower Hungary.

336 Dark red Silver Ore with Siderocalcite, much Galena and Copper Pyrites, as alſo brown Blende, upon Gneiſs; from Freiberg.

337 Light red Silver Ore with intermixed Martial Pyrites; from Johangeorgenſtadt.

338 Maſſive light grey Silver Ore in Galena which is mixed with Martial Pyrites and Siderocalcite; from Freiberg.

339 Argentiferous Galena, with diſſeminated light grey Silver Ore and much intermixed Martial Pyrites, as alſo adhering Gneiſs; from the ſame place.

340 Argentiferous Maſſive Copper Pyrites with adhering Baroſelenite; from the Lorenz Gegentrum near Freiberg.

341 Argentiferous grey Copper Ore, with adhering Argillite; from Gersdorf.

342 Argentiferous Maſſive Martial Pyrites, with intermixed black Blende; from the Kühschacht near Freiberg.

b. *Products of the Smelting Proceſs.*

343 An Halſbrück Raw-ſlag.
344 A Phoſphoreſcent Zinc Cadmia; from the Freiberg Smelting works.
345 Very regularly cubic cryſtallized Lead Cadmia; from the Hartz Lead-works.
346 A quarter of an ounce of cuppelled Silver; from Freiberg.
347 Some of the Hearth; from Freiberg.
348 A globule of fine Silver; from the Freiberg Refinery.
349 Quickſilver Amalgam; from Hungary.

3. *FOR OBTAINING MERCURY.*

350 Native Mercury in Hornſtone; from Deuxponts.
351 Dark red Cinnabar; from the ſame place.
352 Bright red Cinnabar in druſy Quartz; from the ſame place.
353 A roaſted Mercurial Ore; from the ſame place.

4. *FOR OBTAINING LEAD.*

354 Maſſive Galena with adhering Iron Ochre; from Tarnowiz in Sileſia.
355 Compact Galena; from the Hartz.

5. *FOR OBTAINING COPPER.*

a. *The Minerals themſelves.*

356 An horſe ſhoe coated with precipitated Copper; from Hungary.
357 Maſſive and coarſely diſſeminated vitreous Copper Ore, with Copper Pyrites in a ſandy Ironſhot Rockſtone; from the Uralian Mountains in Siberia.
358 Vitreous Copper Ore with Calcareous Spar, upon Bituminous Marlite; from Mansfeld.

359 Superficial purple Copper Ore upon Bituminous Marlite; from Sangerhauſen.
360 Very thick ſuperficial Copper Pyrites, upon indurated Marle, with diſſeminated Galena.
361 Moderately thick ſuperficial Copper Pyrites, upon Bituminous Marlite; from Eisleben.
362 Thin, but yet abundant ſuperficial Copper Pyrites upon the ſame ſort of Stone; from the ſame place.
363 Very thin ſuperficial Copper Pyrites, with traverſing ſlips of Calcareous Spar, upon Bituminous Marlite; from the ſame place.
364 Diſſeminated Copper Pyrites in the ſame ſort of Stone; from Ringelsdorf in Lower Heſſe.
365 Superficial blue Copper Ore upon Argillite which is mixed with Calcareous Spar; from Saalfeld.
366 Minute botryoidal blue Copper Ore, upon compact Malachite; from Hungary.
367 A compound of Ironſhot Mountain green and blue Copper Ore; from the ſame place.
368 Superficial Mountain green and Malachite, upon petrified Wood; from Catharinenburg in Siberia.
369 Very thin ſuperficial Mountain green upon Bituminous Marlite; from Mansfeld.

b. Products of the Mansfeld Smelting Houſes.

370 Roaſted Copper Slate.
371 The ſame, which is evidently more ſtrongly roaſted.
372 Very ſtrongly roaſted Copper Slate.
373 Still more ſtrongly roaſted Copper Slate.
374 Copper Stone.
375 A Crude Slag, from the ſmelted Slate, quite black, glaſſy and compact.
376 Another with round cavities.
377 A third, with bluiſh and verdigris green ſtreaks.
378 Droſs (Gekröz); from the Crude Furnace.
379 The ſame, upon ſtill viſible Copper Slate.
380 The ſame, upon Copper Slate ſtill leſs altered.
381 Roaſted Copper Stone, or the ſo named Garroſt, *i. e.* perfectly roaſted.
382 Black Copper.
383 Another kind of (Zakkigem) black Copper.

384 Regule, Dünſtein or the ſo named Spurſtein.
385 Another ſort of more ſolid and coarſe fibrous Regule.
386 Still a little more compact Regule.
387 A black Copper ſlag.
388 Another lighter and more porous kind of this ſlag.
389 Droſs; from the black Copper Furnace.
390 Black Copper; from Clausthal.
391 Stuff, which ſubſided to the bottom of the Furnace at that place.
392 Proof grains of black Copper.
393 Two blanks (for coining) of perfect Copper (garkupfer).
394 A tolerably thick plate of perfect Copper.
395 Somewhat thinner ditto, of an higher colour.
396 Granulated perfect Copper.

6. *FOR OBTAINING IRON.*

a. *Minerals for that purpoſe.*

397 A piece of quite Maſſive Magnetic Ironſtone; from Sweden.
398 Fine-grained Magnetic Iron Ore, mixed with much indurated Clay; from the ſame place.
399 Coarſely diſſeminated Magnetic Iron Ore in Quartz; from Ehrenfriedersdorf in the Erzgebirge.
400 Brown ſparry Iron Ore, with intermixed Baroſelenite; from Saalfeld.

Rem. It affords there a malleable Iron.

401 White ſparry Iron Ore, with a little intermixed Siderocalcite; from Hüttenberg in Carinthia.
402 Compact red Ironſtone; from Schneeberg.
403 Red Hæmatites, with adhering compact red Ironſtone; from Eibenſtock.
404 Reniform brown Hæmatites; from Kamsdorf.
405 A very good lowland argillaceous Ironſtone; from the Marquiſate of Brandenburg.

406 Ditto, but of a brighter brown colour; from Kemniz near Triebel in Lower Lusatia.

Rem. It contains 38 per cent of Iron.

407 The ſame rather darker, and as rich; from the ſame place.
408 Lowland argillaceous Ironſtone mixed with much Iron Ochre; from Bukau, there.

Rem. It contains 33 per cent and forms a fine vein.

409 The ſame, ſomewhat lighter; from Zſchecheln in Lower Lusatia.

Rem. This contains two or three and thirty per cent.

b. *Products.*

410 Semi-perfect crude Iron, upon which much Plumbago lays.
411 Crude Iron broken, of a much brighter colour.
412 Good crude Iron, whoſe colour and luſtre is intermediate between the other two.

Rem. Theſe three are from the Knuder Works in Upper Lusatia. Vide Leſke's Tour through Saxony. S. 126.

413 Slag; from the Furnace at that place.

c. *Appendix, from the Works at Schnelpfórtel.*

Leſke, a. a. O. S. 287.

α. α. *Raw Materials*

414 A very good dark brown Lowland Argillaceous Ironſtone.
415 A ditto, traverſed by numerous cavities.
416 Ditto, mixed with more Sand.
417 A ditto, mixed with a large quantity of Sand.
418 Very ſandy ditto.
419 Very much decayed Lowland Argillaceous Ironſtone.

β. β. Products.

420 Moderately dark crude Iron.
421 Somewhat brighter crude Iron of a ſmall grain.
422 Similar crude Iron, ſtill of a little brighter grey colour.
423 Crude Iron of a moderately ſmall grain.
424 The ſame of a fine grain.
425 The ſame of a very fine grain.
426 Slag; from this Work.
427 Two pieces of hoop Iron.
428 Granulated Iron.
429 A ſky blue paſſing into verdigris green Iron ſlag.
430 From the bluiſh green paſſing into yellowiſh white Iron ſlag.

7. *FOR PRODUCING TIN.*

431 Cryſtallized Tinſtone in Quartz which is mixed with ſome Talc and Arſenical Pyrites; from Ehrenfriedersdorf.
432 Smaller cryſtallized Tinſtone upon Gneiſs; from the ſame place.
433 Diſſeminated Tinſtone in Garnet which is mixed with ſome Hornblende and indurated Ironſhot Clay, as alſo Quartz; from the ſame place.

8. *FOR ZINC AND BRASS MAKING.*

434 Yellowiſh grey Calamine; from Weſtphalia.
435 The ſame pretty ſtrongly mixed with Iron Ochre; from Olkutschz in Poland.
436 Calamine mixed with a large proportion of Iron Ochre, and apparently ſomewhat roaſted; from the ſame place.
437 Strongly roaſted Calamine; from Aix la Chappelle.
438 Waſhed Calamine; from Carinthia.
439 A Zinc Globule.

9. *BISMUTH.*

9. *BISMUTH.*

440 Native Biſmuth with white Cobalt Ore and adhering Hornſtone, as alſo ſuperficial cobaltic incruſtations; from Schneeberg.

10. *ARSENIC.*

441 a Maſſive and coarſely diſſeminated Arſenical Pyrites in Quartz; from Hungary.

441 b Orpiment; from the ſame place.

B. *SALTS.*

1. *VITRIOL.*

442 Copper Pyrites with intermixed ſparry Iron Ore; from Rammelsberg.

443 Blue Vitriol of Copper; from the ſame place.

444 Maſſive and cryſtallized Martial Pyrites; from Geier.

445 Maſſive Martial Pyrites mixed with much black Blende and ſome Siderocalcite; from Freiberg.

Rem. This is not near ſo good for the purpoſe as the preceding one.

446 Roaſted pyritical Slate.

447 The ſame, with a very large quantity of Vitriol efloreſcing from the decompoſition.

448 Artificial Martial Vitriol.

449 The ſame adulterated with much Vitriol of Zinc.

450 The ſame, with many other adhering impurities.

451 White Vitriol of Zinc.

452 The ſame very impure in many places.

453 Reddiſh impure Vitriol.

454 Yellowiſh impure Vitriol.

455 Vitriol in which the mixture of Zinc and Martial Vitriol is obvious.

456 Columnar ſulphur which is obtained from the Vitriol works as a ſecondary product.

Rem. From No. 446. are all from Rammelsberg.

2. *ALUM.*

457 Roaſted Alum Slate; from Sweden.
458 A piece of artificial Alum.
459 Artificial Alum, very beautifully cryſtallized in Octohædrons piled upon one another in rows.

FOURTH CLASS.

I. FLUXES.

1. *FOR COPPER SMELTING.*

460 A piece of Fluor Spar; from Strassberg in the Hartz.
461 Compact Limeſtone.

2. *FOR IRON SMELTING.*

462 Granular Limeſtone.
463 Very Ironſhot granular Limeſtone, but at the ſame time ſomewhat earthy, therefore not ſo good as the preceding.
464 Hornblende Slate with numerous inlaying Garnets; from Geier.
465 Baſalt with inlaying Hornblende.

Rem. Both the latter are pre-eminently well adapted for this uſe, on account of the ferruginous contents of the Hornblende.

II. FOR THE CONSTRUCTION OF FURNACES.

1. *EXAMPLES OF GOOD STONE.*

466 Very Quartzy Granite; from Altenberg.
467 Tolerably firm Gneiſs; from Lösniz near Freiberg.
468 Compact grey Sandſtone which does not in the leaſt efferveſce with acids.

2. *EXAMPLES OF INDIFFERENT STONE.*

469 Slightly fuſed Sandſtone; from the high furnace of Keule.

470 Much more ſtrongly fuſed Sandſtone; from the ſame place.

471 Still more ſtrongly fuſed, in ſome parts ſemi-vitrified Sandſtone; from the ſame place.

472 Completely fuſed Sandſtone; from the ſame place.

III. MEANS OF FUSION.

473 Slate Coal with inlaying Pitch Coal; from Weſtphalia.

474 Mineral Coal with much inlaying Calcareous Spar; from Wettin in the circle of Saal.

Rem. A Mineral Coal which is circumſtanced throughout as the latter would be unfit for this uſe, but the ſort No. 473, when it is deſulphurated proves excellent for the fuſion of Copper and Iron.

END OF THE OECONOMICAL COLLECTION.

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